



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	INTERNAL MEDICINE				
Didactic position, name and surname of the Discipline Coordinator	Lect. Munteanu Alice Elena				
Didactic position, name and surname for the Course Coordinator	Lect. Munteanu Alice Elena				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Munteanu Alice Elena Assoc.Prof. Chiriac Liviu				
Discipline Code	MLE.4.7.1	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	5

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	125	Total hours of individual study	69

Distribution of time pool per week					Hours
1. Study of the course material					3
2. Study according with the course support, manuals					25
3. Study of the minimal bibliography					3
4. Additional documentation in the library					3
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					1

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

Course name	INTERNAL MEDICINE
Specific professional competencies	C1 – Identification of clinical manifestations of internal diseases; C2 – Application of diagnostic and therapeutic principles.
Transversal competencies	C5 – Communication with patients and medical team; C6 – Ethical and responsible clinical conduct.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Internal Medicine. To develop understanding of clinical assessment and diagnostic reasoning relevant to Internal Medicine. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Internal Medicine. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Internal Medicine.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Internal Medicine. Explain key mechanisms, diagnostic principles and professional standards relevant to Internal Medicine. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe the etiopathogenesis, clinical manifestations, diagnostic principles and therapeutic approaches for major internal medicine diseases.
Skills	Perform clinical examination, interpret laboratory and imaging investigations and formulate diagnostic hypotheses.
Responsibilities/ Autonomy	Integrate clinical data for patient evaluation and participate responsibly in clinical decision-making under supervision.

Course Syllabus	Hours
Course #1. Introduction to Internal Medicine Provides an overview of internal medicine as a clinical discipline, emphasizing diagnostic reasoning, patient evaluation, and evidence-based medical practice.	3

Course Syllabus	Hours
Course #2. Cardiovascular Diseases I – Ischemic Heart Disease and Heart Failure Presents the etiology, pathophysiology, clinical presentation, diagnosis, and treatment principles of ischemic heart disease and heart failure.	3
Course #3. Cardiovascular Diseases II – Hypertension and Arrhythmias Addresses classification, diagnosis, and management of arterial hypertension and cardiac rhythm and conduction disorders.	3
Course #4. Respiratory Diseases I – Obstructive Pulmonary Diseases Covers the diagnosis and management of asthma and chronic obstructive pulmonary disease, including functional respiratory assessment.	3
Course #5. Respiratory Diseases II – Restrictive and Infectious Lung Diseases Introduces restrictive pulmonary syndromes, pneumonias, pleural diseases, and interstitial lung disorders.	4
Course #6. Gastrointestinal Diseases I – Esophageal and Gastric Disorders Focuses on the pathophysiology, diagnosis, and treatment of esophageal and gastric diseases.	4
Course #7. Gastrointestinal Diseases II – Hepatobiliary and Pancreatic Disorders Presents liver, biliary tract, and pancreatic diseases, including chronic liver disease and acute pancreatitis.	4
Course #8. Renal Diseases Addresses acute and chronic kidney diseases, glomerulopathies, and electrolyte disturbances	4
Course #9. Endocrine and Metabolic Diseases Covers diabetes mellitus, thyroid disorders, dyslipidemia, and metabolic syndromes.	4
Course #10. Hematological Diseases Introduces common anemias, coagulation disorders, and hematological syndromes encountered in internal medicine.	4
Course #11. Rheumatologic and Connective Tissue Diseases Presents inflammatory joint diseases, systemic autoimmune disorders, and vasculitides.	4
Course #12. Infectious Diseases in Internal Medicine Addresses systemic infections, sepsis, and infections complicating chronic internal diseases.	4
Course #13. Geriatric Internal Medicine and Multimorbidity Focuses on the management of elderly patients, polypharmacy, frailty, and chronic comorbidities.	4
Course #14. Integrated Clinical Case Management Develops integrated diagnostic and therapeutic approaches through multidisciplinary clinical cases.	4

Laboratory Syllabus	Hours
Laboratory Work #1. General Clinical Examination Trains students in medical history taking and general physical examination techniques.	2
Laboratory Work #2. Cardiovascular Clinical Examination Focuses on cardiovascular system examination, blood pressure measurement, and basic ECG interpretation.	2
Laboratory Work #3. Respiratory System Examination Develops skills in respiratory examination and interpretation of basic functional tests.	2
Laboratory Work #4. Abdominal Examination Covers clinical examination of the abdomen, including liver and spleen assessment.	2

Laboratory Syllabus	Hours
Laboratory Work #5. Interpretation of Laboratory Investigations Introduces interpretation of routine laboratory tests used in internal medicine.	2
Laboratory Work #6. Electrocardiography and Cardiac Monitoring Develops competence in ECG interpretation and cardiac rhythm assessment.	2
Laboratory Work #7. Imaging Techniques in Internal Medicine Introduces basic imaging modalities and their clinical indications.	2
Laboratory Work #8. Renal and Urinary Assessment Focuses on urinalysis, renal function evaluation, and fluid balance assessment.	2
Laboratory Work #9. Endocrine and Metabolic Assessment Trains interpretation of hormonal and metabolic investigations.	2
Laboratory Work #10. Hematological Assessment Covers evaluation of blood count abnormalities and coagulation parameters.	2
Laboratory Work #11. Rheumatologic Clinical Assessment Develops skills in joint examination and interpretation of immunological tests.	2
Laboratory Work #12. Infectious Disease Evaluation Focuses on fever assessment, infection diagnostics, and antimicrobial principles	2
Laboratory Work #13. Geriatric Patient Assessment Introduces comprehensive geriatric assessment and functional evaluation tools.	2
Laboratory Work #14. Clinical Case Presentation Develops clinical reasoning through structured case presentation and discussion.	2

Minimum References:
1. Jameson JL, Fauci AS, Kasper DL, Hauser SL, Loscalzo J, editors. Harrison's principles of internal medicine . 21st ed. New York: McGraw-Hill Education; 2022.
2. Warrell DA, Cox TM, Firth JD, editors. Oxford textbook of medicine . 6th ed. Oxford: Oxford University Press; 2020.
3. Ralston SH, Penman ID, Strachan MWJ, Hobson RP, editors. Davidson's principles and practice of medicine . 24th ed. Edinburgh: Elsevier; 2022.
4. Andreoli TE, Benjamin IJ, Griggs RC, Wing EJ, Fitz JG, editors. Cecil essentials of medicine . 10th ed. Philadelphia: Elsevier; 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:

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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
09.09.2025**

**Discipline Coordinator,
Lect. Munteanu Alice Elena**

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

**Course Coordinator,
Lect. Munteanu Alice Elena**

**Laboratory Coordinator,
Lect. Munteanu Alice Elena
Assoc.Prof. Chiriac Liviu**

**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	PSYCHIATRY				
Didactic position, name and surname of the Discipline Coordinator	Prof. Marian Gabriela				
Didactic position, name and surname for the Course Coordinator	Prof. Marian Gabriela				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Focşeneanu Brînduşa Lect. Bondar Cristian				
Discipline Code	MLE.4.7.2	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
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	PSYCHIATRY
Specific professional competencies	C1 – Recognition of psychiatric symptoms; C2 – Clinical evaluation of mental health conditions.
Transversal competencies	C5 – Empathic communication; C6 – Ethical responsibility in patient care.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Psychiatry. To develop understanding of clinical assessment and diagnostic reasoning relevant to Psychiatry. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Psychiatry. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Psychiatry.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Psychiatry. Explain key mechanisms, diagnostic principles and professional standards relevant to Psychiatry. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain the neurobiological and psychosocial mechanisms underlying psychiatric disorders and describe diagnostic criteria for major mental illnesses.
Skills	Conduct psychiatric interviews, evaluate mental status and interpret behavioral and psychological symptoms.
Responsibilities/ Autonomy	Demonstrate professional responsibility and ethical sensitivity in the management of patients with mental disorders.

Course Syllabus	Hours
Course #1. Semiology of Perception, Attention, and Memory Examining disorders of perception, including both quantitative (e.g., hypoaesthesia, hyperaesthesia) and qualitative (e.g., illusions, hallucinations) disturbances. Examining	3

Course Syllabus	Hours
disorders of memory such as hypomnesia, hypermnesia, and amnesia, as well as paramnesias like confabulations and pseudoreminiscent memories. Examining disorders of attention, including hypoprosexia and hyperprosexia.	
Course #2. Semiology of Thought, Disorders of Language and Writing Examining operational and motivational disorders of thinking, as well as ideational psychopathologies, including obsessive and delusional ideations. Discussing expressive language disorders (e.g., dyslalia, dysphasia) and disorders of graphic expression, highlighting how language dysfunctions manifest in psychiatric conditions.	3
Course #3. Semiology of Affectivity, Imagination, and Expressive Behavior Examining mood disorders, including emotional disturbances like euphoria, dysthymia, and affective ambivalence. Discussing phobias, obsessions, and particular affective states, alongside the semiology of imaginative processes, such as simulation and oversimulation, and expressive behaviors like facial expressions, tics, and pantomimes.	3
Course #4. Semiology of Volitional Processes, Psychomotricity, and Instincts Examining the semiology of will and motor activity, including disturbances in voluntary actions and motor conduct. Exploring disorders of aggression, including suicide, homicide, and infanticide, as well as sexual pulsational disorders like paraphilias and nonsexual pulsational disorders, such as pyromania and kleptomania.	3
Course #5. Disturbances of Consciousness Defining and examining disorders of consciousness, including states like obtuseness, stupor, and coma. Discussing the psychopathological perspective of altered consciousness, including phenomena such as oneiroid states, amentive states, and twilight states, which often manifest in severe psychiatric conditions.	4
Course #6. Treatment of Psychiatric Disorders Covering pharmacological treatments for psychiatric disorders, including their mechanisms of action, indications, and side effects. Exploring various forms of psychotherapy, electroconvulsant therapy, and other treatments used in psychiatry, with a focus on their application in the management of mental illnesses.	4
Course #7. Mood Disorders Providing an overview of mood disorders, including the clinical features of depressive and manic episodes, as well as hypomania and major depressive episodes. Discussing bipolar mood disorder, persistent mood disorders, cyclothymia, and dysthymia, with a focus on their clinical presentation and diagnostic criteria.	4
Course #8. Schizophrenia and Schizophrenia Spectrum Disorders Examining the types of schizophrenia, including paranoid, disorganized, catatonic, and simple schizophrenia. Discussing the diagnostic criteria for these clinical forms, as well as the pathophysiology and treatment approaches for schizophrenia spectrum disorders.	4

Laboratory Syllabus	Hours
Laboratory Work #1. Semiology of Perception, Attention, and Memory Examining case studies related to disorders of perception, including quantitative (e.g., hypoaesthesia, hyperaesthesia) and qualitative (e.g., illusions, hallucinations) disturbances. Analyzing memory disorders such as hypomnesia, hypermnesia, and amnesia, alongside paramnesias including confabulations, pseudoreminiscent memories, and false recognitions. Also covering disorders of attention, including hypoprosexia and hyperprosexia.	2
Laboratory Work #2. Semiology of Thought, Language, and Writing Disorders Examining disorders of thought, including disturbances of form and content, such as delusional	2

Laboratory Syllabus	Hours
thinking and obsessive ideation. Analyzing language disorders, including expressive (dyslalia), receptive (dysphasia), and graphic expression disorders. Focus on the psychopathological aspects of ideation, as well as disorganized thinking and associated disorders.	
Laboratory Work #3. Semiology of Affectivity, Imagination, and Expressive Behavior Exploring mood disorders, including depressive, expansive, and dysthymic episodes. Analyzing disturbances of imagination, including simulation, metasimulation, and oversimulation. Examining expressive behavior, such as abnormalities in dress, mimic expression, and tics, alongside behavior changes in response to mood fluctuations.	2
Laboratory Work #4. Semiology of Volitional Processes, Psychomotricity, and Instincts Investigating disturbances in the will, such as deficits in active and defensive will. Analyzing abnormalities in motor activity, including exacerbation, reduction, or disorganization of movements. Exploring instinctive behaviors, including aggression (auto- and hetero-aggressive impulses), and exploring sexual and non-sexual compulsive disorders, including paraphilias and impulse control disorders.	2
Laboratory Work #5. Disorders of Consciousness and Awareness Examining disturbances of consciousness, including obtuseness, stupor, and coma, and analyzing awareness disorders such as depersonalization and derealization. Investigating psychopathological manifestations of altered states of consciousness, including oneiroid states, twilight states, and ambulatory automatism.	2
Laboratory Work #6. Treatment of Psychiatric Disorders (Pharmacological and Psychotherapeutic) Analyzing pharmacological approaches to treating psychiatric disorders, including various classes of medications, their mechanisms, and indications. Exploring psychotherapeutic techniques such as cognitive-behavioral therapy and psychoanalysis. Also covering other therapeutic interventions such as electroconvulsive therapy.	2
Laboratory Work #7. Mood Disorders (HAMD 17 scale, MADRS scale, Hamilton scale for anxiety) Exploring case studies of mood disorders using standardized scales for evaluation, including the Hamilton Depression Scale (HAMD 17), the Montgomery-Asberg Depression Rating Scale (MADRS), and the Hamilton Anxiety Rating Scale. These tools will be used to assess severity and treatment responses in patients with mood disturbances.	2
Laboratory Work #8. Schizophrenia and Schizophrenia Spectrum Disorders (PANSS Scale) Examining schizophrenia and related disorders using the Positive and Negative Syndrome Scale (PANSS). Case studies will explore different subtypes of schizophrenia and assess clinical features using the PANSS to evaluate positive and negative symptoms.	2
Laboratory Work #9. Schizophrenia and Schizophrenia Spectrum Disorders (BPRS Scale, CSSR-S Scale) Further investigation into schizophrenia and related spectrum disorders using additional scales such as the Brief Psychiatric Rating Scale (BPRS) and the Clinical Global Impressions Severity Scale (CSSR-S). These tools help evaluate symptom severity and treatment outcomes in schizophrenia.	2
Laboratory Work #10. Personality Disorders (MMPI Inventory) Exploring case studies involving various personality disorders, using the Minnesota Multiphasic Personality Inventory (MMPI) to assess personality traits and diagnose disorders. Analysis will include understanding the diagnostic criteria and interpreting test results.	2
Laboratory Work #11. Personality Disorders (Schmieschek Questionnaire) Continuing the exploration of personality disorders, with a focus on using the Schmieschek	2

Laboratory Syllabus	Hours
Questionnaire to assess personality traits. The focus will be on identifying the presence of personality disorders through structured assessment.	
Laboratory Work #12. Dependencies (Drug Addictions) Examining case studies on drug addiction, exploring the symptoms, etiology, and treatment options for various types of dependencies. Emphasis on understanding the psychological, physiological, and social impacts of addiction.	2
Laboratory Work #13. Neurotic Disorders (Projective Tests) Focusing on neurotic disorders and using projective tests to assess underlying emotional and psychological conflicts. Case studies will help demonstrate the use of projective techniques in diagnosing neurotic symptoms.	2
Laboratory Work #14. Organic Mental Disorders Exploring case studies of organic mental disorders, including conditions related to cranio-cerebral trauma, epilepsy, brain tumors, and dementia. The course will examine how these conditions affect cognitive and emotional functioning, with a focus on diagnostic approaches and treatment strategies.	2

Minimum References:
1. Sadock BJ, Sadock VA, Ruiz P. Kaplan & Sadock's synopsis of psychiatry: behavioral sciences/clinical psychiatry . 12th ed. Philadelphia: Wolters Kluwer; 2021.
2. Gelder M, Andreasen N, Lopez-Ibor J Jr, Geddes J, editors. New Oxford textbook of psychiatry . 4th ed. Oxford: Oxford University Press; 2020.
3. American Psychiatric Association. DSM-5-TR: diagnostic and statistical manual of mental disorders . 5th ed, text revision. Washington (DC): American Psychiatric Publishing; 2022.
4. Oyeboode F. Sims' symptoms in the mind: an introduction to descriptive psychopathology . 6th ed. Edinburgh: Elsevier; 2017.
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,
Prof. Marian Gabriela

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

Course Coordinator,
Prof. Marian Gabriela

Laboratory Coordinator,
Lect. Focșeanu Brîndușa
Lect. Bondar Cristian

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 (I)				
Didactic position, name and surname of the Discipline Coordinator	Assoc.Prof. Moldovan Alec Cosmin				
Didactic position, name and surname for the Course Coordinator	Assoc.Prof. Moldovan Alec Cosmin				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc.Prof. Moldovan Alec Cosmin				
Discipline Code	MLE.4.7.3	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
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	C1 – Recognition of surgical pathology; C3 – Initial clinical assessment of surgical patients.
Transversal competencies	C5 – Teamwork in surgical settings; C6 – Professional responsibility.
General objectives of the discipline	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 principles, practical applications and patient-safety considerations in General Surgery (I). To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in General Surgery (I).
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in General Surgery (I). Explain key mechanisms, diagnostic principles and professional standards relevant to General Surgery (I). Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe the pathophysiology, diagnosis and treatment of common surgical diseases.
Skills	Perform clinical surgical examination and interpret preoperative diagnostic investigations.
Responsibilities/ Autonomy	Participate responsibly in surgical patient management and decision-making under supervision.

Course Syllabus	Hours
Course #1. Pathology of the Esophagus – Achalasia of the Cardia, Esophageal Diverticula, Gastroesophageal Reflux Disease Exploring the pathophysiology, clinical features, diagnostic criteria, and treatment options for esophageal disorders such as achalasia, esophageal diverticula, and gastroesophageal reflux	2

Course Syllabus	Hours
disease (GERD). The focus is on understanding the underlying mechanisms and therapeutic approaches for these conditions.	
Course #2. Pathology of the Esophagus – Hiatal Hernias An overview of the types of hiatal hernias, their classification, clinical presentation, diagnostic methods, and management strategies. This topic includes the surgical interventions used in treating hiatal hernias and their associated complications.	2
Course #3. Pathology of the Stomach – Gastric and Duodenal Ulcers, Endocrine Gastric Ulcer, APUD System Discussing the pathogenesis, risk factors, and clinical presentation of gastric and duodenal ulcers, including the role of the endocrine system and the APUD system in ulcer formation. This lecture addresses both the medical and surgical management of peptic ulcer disease.	2
Course #4. Pathology of the Stomach and Duodenum – Complications of Gastric Ulcer: Perforation, Hemorrhage, Stenosis, and Malignancy Examining the potential complications of gastric ulcers, including perforation, hemorrhage, stenosis, and the risk of malignancy. This lecture focuses on their pathophysiology, clinical signs, diagnostic methods, and treatment options.	2
Course #5. Pathology of the Small Intestine – Intestinal Invagination, Diverticula, Regional Enteritis, Crohn's Disease, Benign and Malignant Tumors A comprehensive review of the pathologies affecting the small intestine, including childhood intestinal invagination, diverticulosis, regional enteritis, Crohn's disease, and the benign and malignant tumors affecting this region. This topic covers both diagnostic and therapeutic approaches.	2
Course #6. Surgical Pathology of the Colon – Diverticulosis and Colic Polyposis, Ulcerative-Hemorrhagic Rectocolitis, Benign and Malignant Tumors This lecture focuses on the surgical aspects of diverticulosis, colic polyposis, ulcerative-hemorrhagic rectocolitis, and colorectal tumors. It includes discussions on their surgical management, indications for resection, and complications.	2
Course #7. Pathology of the Rectum and Anal Canal – Rectal Prolapse, Benign and Malignant Tumors, Hemorrhoids, Fissures, Perianorectal Infections Examining the conditions affecting the rectum and anal canal, including rectal prolapse, benign and malignant tumors, hemorrhoids, anal fissures, and perianorectal infections (e.g., abscesses, phlegmons, and fistulas). Diagnostic and surgical approaches are emphasized.	2
Course #8. Pathology of the Liver – Liver Trauma, Liver Abscesses An in-depth exploration of liver trauma and the various types of liver abscesses, focusing on their clinical presentation, diagnostic techniques, and the treatment options, including surgical interventions.	2
Course #9. Pathology of the Liver – Hydatid Cyst of the Liver This lecture covers the pathogenesis, diagnosis, and surgical treatment of hydatid liver cysts, focusing on their clinical implications, imaging techniques, and the approach to management, including surgical excision and medical therapy.	2
Course #10. Pathology of the Bile Ducts – Vesicular Lithiasis, Cholecystopathies, Complications of Vesicular Lithiasis An overview of gallbladder diseases, including vesicular lithiasis and cholecystopathies. This topic discusses the complications of gallstones, including cholecystitis, biliary colic, and other disorders of the biliary system, and the management strategies involved.	2
Course #11. Pathology of the Pancreas – Acute and Chronic Pancreatitis Exploring the pathophysiology, clinical features, and treatment of acute and chronic	2

Course Syllabus	Hours
pancreatitis, including the role of surgical interventions in severe cases and complications such as pancreatic pseudocysts and abscesses.	
Course #12. Pathology of the Spleen – Trauma to the Spleen, Hypersplenism This lecture discusses the management of splenic trauma and hypersplenism, including indications for splenectomy, the potential complications of splenic injury, and the role of the spleen in immunologic function.	2
Course #13. Disorders of the Abdominal Wall – Hernias, Inguinal, Femoral, Umbilical Hernias, Rare Hernias, Internal Hernias, Diaphragmatic Hernias This topic covers the various types of abdominal wall hernias, including inguinal, femoral, and umbilical hernias, as well as rare and internal hernias. It discusses the clinical presentation, diagnostic tools, and surgical management options for these conditions.	2
Course #14. Disorders of the Abdominal Wall – Abdominal Parietal Defects: Eventrations and Eviscerations Focusing on abdominal wall defects such as eventrations and eviscerations, this lecture examines their pathophysiology, surgical approaches, and the complications associated with these conditions.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Observation Sheet: Normal Blood and Urinary Values Focusing on the creation and interpretation of clinical observation sheets. This includes the documentation and evaluation of normal blood and urinary values, with an emphasis on understanding their clinical significance in various pathologies.	2
Laboratory Work #2. The Technique of Functional Exploration in Hepato-Biliary Diseases Examining the methods used to assess liver and biliary function, including various diagnostic tests and techniques for evaluating conditions such as cholestasis, cirrhosis, and biliary obstruction.	3
Laboratory Work #3. Diagnostic Technique in the Pathology of Abdominal Viscera and Urinary Apparatus An overview of diagnostic techniques used to evaluate the pathology of abdominal organs and the urinary system. This includes imaging modalities and clinical examination methods for detecting conditions like nephropathies, abdominal tumors, and gastrointestinal disorders.	3
Laboratory Work #4. Diagnostic Technique in the Pathology of the Mammary Gland and Chest Exploring diagnostic techniques for evaluating diseases of the mammary gland and the chest, such as breast cancer, benign lesions, and chest infections. This includes mammography, ultrasonography, and chest X-rays.	3
Laboratory Work #5. Technique of Diagnosis of Arterial and Venous Diseases Focusing on diagnostic methods for arterial and venous diseases, including the use of Doppler ultrasound, angiography, and clinical examinations to assess conditions like peripheral arterial disease, varicose veins, and deep vein thrombosis.	3
Laboratory Work #6. Asepsia and Antisepsia: Dressings and Wrapping Discussing the principles of aseptic technique and antiseptic procedures in surgical practice. This includes proper methods for performing dressings and wrapping to prevent infection and promote wound healing.	3
Laboratory Work #7. Surgical Instruments: Technical Details in Laparoscopic Surgery, Pneumoperitoneum, and Diagnostic Laparoscopy Providing an introduction to the various surgical instruments used in laparoscopic surgery. This	3

Laboratory Syllabus	Hours
topic covers the technical aspects of creating a pneumoperitoneum and performing diagnostic laparoscopy to evaluate abdominal pathologies.	
Laboratory Work #8. Wounds and Surgical Suture: Incision and Drainage; Bladder Survey Explaining the techniques for managing surgical wounds, including suturing, incision, and drainage. This lecture also covers bladder survey procedures used for diagnosing and evaluating urinary tract pathologies.	3
Laboratory Work #9. Interpretation of Radioscopy, Radiography, Irrigography, Ultrasound, and Anorectal Exploration Focusing on the interpretation of various diagnostic imaging modalities including radiographs, ultrasound, and irrigography. This includes the clinical application of these techniques in diagnosing abdominal and anorectal conditions.	3
Laboratory Work #10. Practical Examination A comprehensive practical exam evaluating the skills and knowledge acquired throughout the course, with a focus on clinical observation, diagnostic techniques, and surgical procedures.	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. 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.
3. Garden OJ, Parks RW, Wigmore SJ, editors. Principles and practice of surgery . 7th ed. Edinburgh: Elsevier; 2021.
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:

- 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

16.09.2025

**Discipline Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

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

**Course Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

**Laboratory Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

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 ONCOLOGY				
Didactic position, name and surname of the Discipline Coordinator	PhD. MD. Jinga Dan Cornel				
Didactic position, name and surname for the Course Coordinator	PhD. MD. Jinga Dan Cornel				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	PhD. MD. Jinga Dan Cornel PhD. MD. Popescu Andrei				
Discipline Code	MLE.4.7.4	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
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 ONCOLOGY
Specific professional competencies	C1 – Identification of oncologic pathology; C2 – Application of diagnostic and therapeutic principles.
Transversal competencies	C5 – Communication with patients and oncology teams; C6 – Ethical patient care.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Medical Oncology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Medical Oncology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Medical Oncology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Medical Oncology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Medical Oncology. Explain key mechanisms, diagnostic principles and professional standards relevant to Medical Oncology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe tumor biology, mechanisms of carcinogenesis and principles of oncologic therapies.
Skills	Interpret diagnostic investigations for cancer and assess therapeutic strategies.
Responsibilities/ Autonomy	Participate responsibly in multidisciplinary oncological management and patient monitoring.

Course Syllabus	Hours
Course #1. Introduction to Oncology, Malignant Phenotype, and Malignant Biology An introduction to oncology, discussing the malignant phenotype and the biology of malignant cells. Emphasis on understanding the cellular and molecular mechanisms underlying cancer growth and progression.	2

Course Syllabus	Hours
Course #2. Carcinogenesis Exploration of the processes involved in carcinogenesis. A detailed look at the molecular and genetic changes that lead to cancer, including mutations, oncogenes, and tumor suppressor genes.	2
Course #3. Invasion and Metastasis Examination of the processes by which cancer cells invade surrounding tissues and spread to distant organs. Understanding the mechanisms involved in metastasis and their clinical implications.	2
Course #4. Etiopathogenesis of Cancer Focus on the causes and development of cancer, examining genetic, environmental, and lifestyle factors that contribute to the initiation and progression of cancer.	2
Course #5. Epidemiology of Cancer Discussion of cancer incidence, prevalence, and mortality rates. Exploration of the major risk factors for cancer and how they contribute to cancer burden in different populations.	2
Course #6. Diagnosis in Cancerous Disease; Principles of Staging, Tumor Markers Overview of diagnostic methods for cancer, including imaging techniques, biopsies, and laboratory tests. A focus on the principles of cancer staging and the role of tumor markers in diagnosis and monitoring.	2
Course #7. Histopathological Classification of Tumors Study of the histopathological classification of tumors based on their cellular and tissue characteristics. Understanding the different types of tumors and their classification schemes.	2
Course #8. Cancer Prevention and Prophylaxis Examination of strategies for preventing cancer, including lifestyle changes, vaccinations, and chemoprevention. Focus on public health measures to reduce cancer risk.	2
Course #9. Screening of Neoplasia Discussion of the methods and guidelines for cancer screening. The role of early detection in improving cancer outcomes and reducing mortality.	2
Course #10. Oncological Emergencies Overview of oncological emergencies, including acute complications such as tumor lysis syndrome, spinal cord compression, and superior vena cava syndrome. Strategies for emergency management.	2
Course #11. Cancer Treatment: The Principles of Surgical, Radiological, and Systemic Treatment Detailed review of the main treatment modalities in cancer care, including surgery, radiation therapy, and systemic treatments such as chemotherapy, immunotherapy, and targeted therapies.	2
Course #12. Breast Cancer: Epidemiology, Risk Factors, Diagnosis, Staging, Treatment Comprehensive discussion of breast cancer, including its epidemiology, risk factors, diagnostic techniques, staging, and the principles of treatment.	2
Course #13. Bronchopulmonary Cancer: Epidemiology, Risk Factors, Diagnosis, Staging, Treatment Exploration of bronchopulmonary cancer, focusing on lung cancer, its epidemiology, risk factors, diagnostic methods, staging, and treatment approaches.	2
Course #14. Colorectal Cancer: Epidemiology, Risk Factors, Diagnosis, Staging, Treatment Overview of colorectal cancer, examining its epidemiology, risk factors, diagnostic methods, staging systems, and available treatments.	2

Laboratory Syllabus	Hours
<p>Laboratory Work #1. Clinical Examination of the Oncological Patient Introduction to the clinical examination of oncology patients. Focus on assessing the general status, identifying signs and symptoms specific to cancer, and using the clinical observation sheet to document findings. Emphasis on the importance of thorough physical examination and monitoring throughout the patient's cancer journey.</p>	2
<p>Laboratory Work #2. Breast Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Case study approach to breast cancer, focusing on its epidemiology, progression, common signs and symptoms, diagnostic methods, and pre-treatment evaluation. Includes post-therapeutic treatment strategies and the follow-up care needed to monitor for recurrence.</p>	2
<p>Laboratory Work #3. Non-microcellular Bronchopulmonary Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Case study of non-small cell lung cancer, covering its epidemiology, progression, diagnostic methods, pre-therapy assessment, treatment strategies, and post-treatment monitoring.</p>	2
<p>Laboratory Work #4. Microcellular Bronchopulmonary Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Detailed examination of small cell lung cancer, including epidemiological data, progression, common clinical signs, and diagnostic methods. Focus on pre-treatment evaluation, therapeutic approaches, and long-term follow-up care.</p>	2
<p>Laboratory Work #5. Colon Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Case study of colon cancer, focusing on epidemiology, disease progression, and clinical symptoms. Detailed discussion of diagnostic techniques, pre-treatment evaluation, treatment options, and post-treatment follow-up.</p>	2
<p>Laboratory Work #6. Rectal Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Treatment, and Post-therapeutic Follow-up Focus on rectal cancer, including its epidemiology, clinical signs, and diagnostic approaches. Exploration of treatment options, including surgery and adjuvant therapies, and long-term follow-up care to monitor for recurrence.</p>	2
<p>Laboratory Work #7. Gastric Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Case study on gastric cancer, including epidemiological data, clinical manifestations, diagnostic strategies, pre-treatment work-up, and treatment modalities. Focus on the importance of post-therapy follow-up.</p>	2
<p>Laboratory Work #8. Malignant Melanoma: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up Detailed examination of malignant melanoma, with emphasis on its epidemiology, progression, signs, symptoms, and diagnostic methods. Discussion of therapeutic strategies and the significance of post-treatment monitoring.</p>	2

Laboratory Syllabus	Hours
<p>Laboratory Work #9. Ovarian Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up</p> <p>Case study of ovarian cancer, discussing epidemiology, disease progression, and clinical features. Focus on diagnosis, pre-treatment evaluation, therapeutic strategies, and long-term follow-up care.</p>	2
<p>Laboratory Work #10. Cervical Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up</p> <p>Case study on cervical cancer, including an overview of its epidemiology, natural history, clinical symptoms, and diagnostic methods. Emphasis on pre-treatment evaluation, treatment protocols, and follow-up care.</p>	2
<p>Laboratory Work #11. Prostate Cancer: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Treatment, and Post-therapeutic Follow-up</p> <p>Case study on prostate cancer, covering epidemiology, progression, signs, and symptoms. Detailed exploration of diagnostic approaches, treatment options, and post-therapy follow-up strategies.</p>	2
<p>Laboratory Work #12. Sarcomas: Epidemiology, Natural History, Characteristic Signs and Symptoms, Methods of Diagnosis, Pre-therapeutic Balance, Post-therapeutic Treatment, and Follow-up</p> <p>In-depth case study of sarcomas, including their epidemiology, natural history, and characteristic clinical features. Focus on diagnostic methods, treatment approaches, and long-term management.</p>	2
<p>Laboratory Work #13. Chemotherapeutic Agents: Methods of Administration, Incidents, Adverse Effects, and Treatment of Adverse Effects</p> <p>Detailed review of chemotherapy agents, administration techniques, and potential side effects. Focus on how to manage and mitigate adverse effects in cancer patients receiving chemotherapy.</p>	2
<p>Laboratory Work #14. Nutrition of the Cancer Patient</p> <p>Discussion on the nutritional management of cancer patients, addressing the specific dietary needs and challenges that arise during treatment. Focus on the importance of proper nutrition for improving outcomes and maintaining patient quality of life.</p>	2

Minimum References:
1. Niederhuber JE, Armitage JO, Doroshow JH, Kastan MB, Tepper JE, editors. Abeloff's clinical oncology . 6th ed. Philadelphia: Elsevier; 2020.
2. DeVita VT Jr, Lawrence TS, Rosenberg SA, editors. DeVita, Hellman, and Rosenberg's cancer: principles & practice of oncology . 11th ed. Philadelphia: Wolters Kluwer; 2019.
3. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J, editors. Harrison's hematology and oncology . 3rd ed. New York: McGraw-Hill Education; 2017.
4. Johnston SRD, Swanton C, editors. Oxford textbook of oncology . Oxford: Oxford University Press; 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

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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,
PhD.MD. Jinga Dan Cornel**

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

**Course Coordinator,
PhD.MD. Jinga Dan Cornel**

**Laboratory Coordinator,
PhD.MD. Jinga Dan Cornel
PhD.MD. Popescu 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	OPHTHALMOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lect. Manasia Daniela, MD, PhD.				
Didactic position, name and surname for the Course Coordinator	Lect. Manasia Daniela, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Merticariu Corina, MD, PhD Lect. Manasia Daniela, MD, PhD				
Discipline Code	MLE.4.7.5	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
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	OPHTHALMOLOGY
Specific professional competencies	C1 – Recognition of ocular pathology; C2 – Application of ophthalmological examination techniques.
Transversal competencies	C5 – Patient communication; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Ophthalmology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Ophthalmology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Ophthalmology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Ophthalmology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Ophthalmology. Explain key mechanisms, diagnostic principles and professional standards relevant to Ophthalmology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe the anatomy, physiology and pathology of the visual system and common ophthalmological disorders.
Skills	Perform basic ophthalmological examination and interpret visual diagnostic tests.
Responsibilities/ Autonomy	Apply ophthalmological knowledge responsibly in clinical contexts.

Course Syllabus	Hours
Course #1. Visual Function and Feeling of Color Physiological mechanisms of luminous sensation examined through electroretinography and evoked visual potentials. Clinical significance of hemeralopia and nyctalopia as disorders of light adaptation. Methods for assessing visual acuity and peripheral visual field. Classification and interpretation of chromatic sensation abnormalities.	2

Course Syllabus	Hours
<p>Course #2. Ocular Refraction and Its Disorders: Ametropies Optical principles of static and dynamic refraction, with emphasis on the role of accommodation. Physiological conditions such as presbyopia and pathological changes including accommodative paralysis and spasm. Techniques for examination and correction, including optical devices and refractive surgical procedures.</p>	2
<p>Course #3. Binocular Vision and Its Affections Functional anatomy of oculomotor coordination and mechanisms underlying binocular vision. Etiopathogenesis and classification of diplopia. Diagnostic criteria and therapeutic strategies for strabismus, including clinical forms and investigative methods.</p>	2
<p>Course #4. Pathology of the Orbit and the Tear Apparatus Clinical semiology of orbital disorders, including signs such as proptosis and enophthalmia. Classification of inflammatory, infectious, and tumoral orbital conditions. Disorders of the lacrimal gland and drainage pathways, with focus on dacryoadenitis and dacryocystitis in differential diagnosis.</p>	2
<p>Course #5. Pathology of the Eyelids Congenital malformations and acquired structural and functional disorders of the eyelids. Inflammatory conditions such as blepharitis, hordeolum, and chalazion. Mechanical abnormalities including ectropion, entropion, and ptosis. Clinical and histopathological features of eyelid tumors.</p>	2
<p>Course #6. Pathology of the Conjunctiva Morphological and clinical classification of conjunctival pathology. Differential diagnosis of inflammatory, allergic, and degenerative conditions. Principles of management based on etiology and disease course.</p>	4
<p>Course #7. Pathology of the Cornea and Sclera Semiological features and clinical forms of corneal and scleral disease. Viral and bacterial keratitis, corneal ulcers, degenerations, and dystrophies. Scleritis and episcleritis in relation to systemic associations. Diagnostic relevance of scleral ectasia.</p>	4
<p>Course #8. Pathology of the Pupil Physiology of pupillary function and mechanisms governing light and accommodation responses. Classification of disorders affecting pupillary statics and dynamics, including anisocoria and light-near dissociation, with implications for neurological and ocular assessment.</p>	2
<p>Course #9. Pathology of the Uvea Etiological classification and clinical presentation of anterior and posterior uveitis. Sympathetic ophthalmia and uveal tumors considered in terms of pathogenesis, systemic associations, and diagnostic approach.</p>	2
<p>Course #10. Pathology of the Lens Structural and functional alterations of the lens, including congenital and acquired cataract. Mechanisms and consequences of lens dislocation and subluxation. Diagnostic criteria and considerations for surgical intervention.</p>	4
<p>Course #11. Glaucoma Classification of glaucomatous disease based on anterior chamber angle configuration. Pathophysiological mechanisms of optic nerve damage and intraocular pressure regulation. Diagnostic methods and therapeutic principles, including medical and surgical options.</p>	2

Laboratory Syllabus	Hours
Laboratoy Work #1. Anatomy and Physiology of the Eye, Optic Pathways, Visual Cortex Structural and functional organization of the eyeball, ocular adnexa, and associated neurosensory structures. Course of the optic pathways from the retina to the visual cortex. Functional integration of visual processing at the cortical level.	2
Laboratoy Work #2. Visual Acuity Procedures for assessing distant and near vision under standardized conditions. Evaluation of light perception and projection. Assessment of contrast sensitivity as a component of functional visual performance.	2
Laboratoy Work #3. Examination of Binocular Vision Methods for testing simultaneous perception, fusion, and stereopsis using devices such as the synoptophore. Interpretation of clinical findings in relation to binocular coordination and visual development.	2
Laboratoy Work #4. Evaluation of Heterophoria, Strabismus, and Diplopia Techniques for identifying latent and manifest ocular deviations. Performance and interpretation of the cover test and related maneuvers. Investigation of diplopia through patient history and clinical alignment testing.	2
Laboratoy Work #5. Techniques for Examining the Sensation of Color Methods for assessing chromatic discrimination, including equalization and comparison techniques. Use of pseudoisochromatic plates for screening and diagnosis of congenital and acquired color vision deficiencies.	2
Laboratoy Work #6. Ocular Refraction Clinical procedures for evaluating static and dynamic refractive status. Subjective refraction assessment using Donders method. Objective measurements performed by retinoscopy (skiascopy), refractometry, and astigmometry.	2
Laboratoy Work #7. Ametropial Correction Indications and selection criteria for optical correction of refractive errors. Practical aspects of prescribing and adjusting corrective lenses, including spherical, cylindrical, and toric components. Principles of contact lens use and follow-up.	2
Laboratoy Work #8. Daylight Examination Systematic inspection of the ocular adnexa and anterior segment under natural or diffuse light. Assessment includes the orbit, eyebrows, eyelids, lacrimal apparatus, conjunctiva, sclera, cornea, anterior chamber, iris, pupil, lens, and pupillary reactions.	2
Laboratoy Work #9. Biomicroscopic Examination Evaluation of anterior and intermediate ocular segments using the slit lamp. Examination of the conjunctiva, cornea, anterior chamber, iris, and vitreous. Technique and interpretation of gonioscopy for angle assessment.	2
Laboratoy Work #10. Examination of the Fundus Techniques for direct and indirect ophthalmoscopic examination. Identification and interpretation of the red reflex. Differential diagnosis based on findings in the retina, optic disc, and macular region.	2
Laboratoy Work #11. Special Paraclinical Investigations Use and interpretation of complementary imaging techniques, including fluorescein angiography, ocular ultrasound, biometric measurements, and optical coherence tomography (OCT). Clinical indications and diagnostic value in various ocular pathologies.	2
Laboratoy Work #12. Simulation and Concealment in Ophthalmology Recognition of non-organic visual disturbances. Methods for identifying simulation and malingering through structured clinical testing and behavioral analysis.	2

Laboratory Syllabus	Hours
Laboratoy Work #13. Treatment in Ophthalmology Administration techniques for topical therapies including solutions, ointments, and eye dressings. Overview of systemic treatment options used in ophthalmic conditions. Application of sterile and non-invasive procedures in the outpatient setting.	2
Laboratoy Work #14. Emergency Conduct in Eye Trauma Initial evaluation and prioritization in ocular emergencies. Management strategies for mechanical, chemical, and thermal injuries. Indications for referral and principles of ocular trauma stabilization.	2

Minimum References:
1. Bowling B. Kanski's clinical ophthalmology: a systematic approach . 9th ed. Edinburgh: Elsevier; 2020.
2. Sihota R, Tandon R. Parson's diseases of the eye . 23rd ed. Edinburgh: Elsevier; 2019. (<i>Classic European-style textbook, still very widely used</i>)
3. Elkington AR, Frank HJ, Greaney MJ. Clinical optics . 4th ed. Oxford: Wiley-Blackwell; 2014.
4. Spalton DJ, Hitchings RA, Hunter PA. Atlas of clinical ophthalmology . 4th ed. Edinburgh: 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:
<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
12.09.2025

Discipline Coordinator,
Lect. Manasia Daniela

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

Course Coordinator,
Lect. Manasia Daniela

Laboratory Coordinator,
Lect. Merticariu Corina
Lect. Manasia Daniela

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	PEDIATRIC SURGERY				
Didactic position, name and surname of the Discipline Coordinator	Lect. Tudorache Simona, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Tudorache Simona, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Tudorache Simona, MD, PhD Cănuț Denisa, MD, PhD Candidate				
Discipline Code	MLE.4.7.6	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
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	PEDIATRIC SURGERY
Specific professional competencies	C1 – Recognition of pediatric surgical conditions; C3 – Evaluation of pediatric surgical patients.
Transversal competencies	C5 – Communication with children and parents; C6 – Ethical pediatric care.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Pediatric Surgery. To develop understanding of clinical assessment and diagnostic reasoning relevant to Pediatric Surgery. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Pediatric Surgery. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Pediatric Surgery.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Pediatric Surgery. Explain key mechanisms, diagnostic principles and professional standards relevant to Pediatric Surgery. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe congenital and acquired surgical conditions in pediatric patients and their therapeutic management.
Skills	Assess pediatric surgical patients and interpret diagnostic findings.
Responsibilities/ Autonomy	Participate responsibly in pediatric surgical care under supervision.

Course Syllabus	Hours
Course #1. Pathology of the Head Region Cheiloschisis (cleft lip), cleft palate: clinical aspects, diagnosis, surgical correction, postoperative care.	2
Course #2. Cervical Region Pathology: Cysts and Fistulas Midline cysts, thyro-hyoidal mucoïd cyst, lateral cervical cysts and fistulas: clinical presentation, diagnosis, surgical management.	2

Course Syllabus	Hours
Course #3. Pathology of the Diaphragm Congenital diaphragmatic hernias and eventrations, hiatal hernias: clinical features, diagnosis, treatment, prognosis.	2
Course #4. Esophageal Malformations (Atresia, Eso-tracheal Fistula, Duplication) Etiology, clinical diagnosis, imaging studies, surgical correction techniques, postoperative care.	2
Course #5. Esophageal Motility Disorders: Cardiospasm in Children Clinical manifestations, diagnosis (imaging, manometry), and surgical or endoscopic treatment approaches.	2
Course #6. Gastro-duodenal Ulcers in Pediatric Patients Clinical presentation, diagnosis, medical and surgical management, prevention of complications.	2
Course #7. Congenital Hypertrophic Pyloric Stenosis Pathophysiology, clinical features, imaging diagnosis, surgical intervention, postoperative care.	2
Course #8. Malformations and Disorders of Small and Large Intestine Malrotations, situs inversus, intestinal atresia, meconial peritonitis: diagnosis and management principles.	2
Course #9. Hirschsprung Disease (Congenital Megacolon) Etiology, pathophysiology, clinical manifestations, diagnostic modalities, surgical techniques, postoperative care.	2
Course #10. Intestinal Invagination (Intussusception) Etiology, clinical features, imaging diagnosis, conservative and surgical treatment approaches.	2
Course #11. Acute Appendicitis and Primitive Acute Peritonitis in Pediatrics Clinical presentation, differential diagnosis, surgical management, postoperative monitoring, and outcomes.	2
Course #12. Congenital Pathologies of the Abdominal Wall (Omphalocele, Laparoschisis) Clinical diagnosis, preoperative stabilization, surgical techniques, postoperative care, prognosis.	2
Course #13. Umbilical Pathologies (Fistulas, Meckel's Diverticulum, Umbilical Hernia) Clinical aspects, diagnosis, surgical treatments, and management of complications.	2
Course #14. Inguinal Hernia, Spermatic Cord Cysts, and Hydrocele in Children Clinical presentation, differential diagnosis, conservative and surgical management strategies, prognosis.	2

Laboratory Syllabus	Hours
Laboratoy Work #1. Pathology of the Abdominal Wall – Clinical Cases Clinical evaluation and diagnostic approach to pediatric patients with congenital abdominal wall defects, including practical case-based discussions.	2
Laboratoy Work #2. Radiological Examination in Abdominal Wall Pathology Practical interpretation of diagnostic imaging in pediatric abdominal wall disorders, emphasizing radiological findings and clinical correlations.	2
Laboratoy Work #3. Surgical Instruments and Techniques for Abdominal Wall Repair Practical identification and handling of surgical instruments utilized in pediatric abdominal wall repair procedures.	2
Laboratoy Work #4. Practical Approach to Congenital Diaphragmatic Hernia Clinical evaluation and diagnostic management of congenital diaphragmatic hernia, incorporating relevant imaging studies and clinical discussions.	2

Laboratory Syllabus	Hours
Laboratoy Work #5. Esophageal Malformations – Practical Clinical Evaluation Clinical assessment, diagnostic imaging interpretation, and practical management discussions of esophageal atresia and eso-tracheal fistulas.	2
Laboratoy Work #6. Practical Management of Gastro-Duodenal Disorders Clinical evaluation, radiological assessment, and discussion of management strategies for pediatric gastro-duodenal pathologies, including congenital hypertrophic pyloric stenosis.	2
Laboratoy Work #7. Practical Diagnostic and Therapeutic Approaches in Hirschsprung Disease Clinical case assessment and diagnostic interpretation in Hirschsprung disease, including practical demonstration of relevant procedures such as rectal biopsy.	2
Laboratoy Work #8. Acute Appendicitis in Pediatrics – Clinical Practice Clinical assessment, differential diagnostic reasoning, and radiological interpretation for pediatric acute appendicitis cases.	2
Laboratoy Work #9. Practical Skills in Pediatric Hernia Repair Clinical evaluation and practical surgical management of umbilical and inguinal hernias, emphasizing diagnostic accuracy and procedural techniques.	2
Laboratoy Work #10. Congenital Malformations of Head and Neck – Practical Cases Clinical evaluation and imaging interpretation for congenital malformations of the pediatric head and neck region, including practical diagnostic strategies.	2
Laboratoy Work #11. Pediatric Surgical Emergencies – Practical Management Practical session on management strategies for pediatric surgical emergencies, including clinical simulations and scenario-based training.	2
Laboratoy Work #12. Gastrointestinal Imaging Techniques in Pediatric Surgery Practical interpretation of imaging studies (ultrasound, CT, contrast radiography) utilized in pediatric gastrointestinal surgical pathologies.	2
Laboratoy Work #13. Surgical Suturing and Wound Management in Pediatric Surgery Practical instruction in suturing techniques, wound assessment, asepsis protocols, and postoperative care for pediatric surgical procedures.	2
Laboratoy Work #14. Comprehensive Review and Practical Examination – Pediatric General Surgery Final interactive review and practical examination session integrating key clinical and surgical skills, clinical reasoning, and management strategies through case discussions and skill assessments.	2

Minimum References:
1. Coran AG, Adzick NS, Krummel TM, Laberge JM, Shamberger RC, Caldamone AA, editors. Pediatric surgery . 7th ed. Philadelphia: Elsevier; 2012.
2. Puri P, Höllwarth ME, editors. Pediatric surgery: diagnosis and management . 2nd ed. Berlin: Springer; 2020.
3. Spitz L, Coran AG, editors. Rob & Smith’s operative pediatric surgery . 6th ed. London: CRC Press; 2018.
4. Ashcraft KW, Holcomb GW, Murphy JP, Ostlie DJ. Ashcraft’s pediatric surgery . 6th 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

-

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,
Lect. Tudorache Simona

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

**Course Coordinator,
Lect. Tudorache Simona**

**Laboratory Coordinator,
Lect. Tudorache Simona
PhD.Candidate Cănuț Denisa**

**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	PEDIATRIC ORTHOPEDICS				
Didactic position, name and surname of the Discipline Coordinator	Lect. Vlad Costel, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Vlad Costel, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Vlad Costel, MD, PhD				
Discipline Code	MLE.4.8.7	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	V4
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	PEDIATRIC ORTHOPEDICS
Specific professional competencies	C1 – Identification of musculoskeletal disorders in children; C2 – Application of diagnostic principles.
Transversal competencies	C5 – Interdisciplinary communication; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Pediatric Orthopedics. To develop understanding of clinical assessment and diagnostic reasoning relevant to Pediatric Orthopedics. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Pediatric Orthopedics. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Pediatric Orthopedics.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Pediatric Orthopedics. Explain key mechanisms, diagnostic principles and professional standards relevant to Pediatric Orthopedics. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain musculoskeletal development and pediatric orthopedic pathologies.
Skills	Perform orthopedic examination and interpret radiological findings in pediatric patients.
Responsibilities/ Autonomy	Apply safe and responsible approaches in pediatric orthopedic evaluation.

Course Syllabus	Hours
Course #1. Etiology and Classification of Congenital Malformations of the Musculoskeletal System Overview, causes, classification, and clinical relevance of congenital malformations affecting the musculoskeletal system in children.	2

Course Syllabus	Hours
Course #2. Congenital Malformations of the Upper Limb Overgrown shoulder blade, congenital synostosis, congenital hand deformities, and associated treatment principles.	2
Course #3. Congenital Malformations of the Lower Limb (I) Congenital crooked leg: clubfoot varus-equine and talus-valgus; principles of diagnosis and treatment.	2
Course #4. Congenital Malformations of the Lower Limb (II) Congenital hip dislocation, congenital torticollis, juvenile dorsal kyphosis: clinical features, diagnosis, management.	2
Course #5. Localized Osteochondropathies – Overview and General Aspects General principles, pathophysiology, radiological and clinical diagnosis of osteochondropathies in pediatric patients.	2
Course #6. Osteochondrosis of the Femoral Head (Legg-Calve-Perthes Disease) Etiology, clinical and radiological presentation, treatment options, and prognosis.	2
Course #7. Apophysitis Disorders in Children (Lannelongue-Osgood-Schlatter Disease and Sever Disease) Anterior tibial apophysitis and posterior apophysitis of the calcaneus: clinical diagnosis, management strategies, outcomes.	2
Course #8. Tarsal Osteochondritis (Köhler I Disease) Etiology, clinical and imaging diagnosis, conservative and surgical treatment options.	2
Course #9. Disorders of Osteogenesis: Achondroplasia and Osteogenesis Imperfecta (Lobstein's Disease) Clinical features, diagnosis, therapeutic approaches, orthopedic interventions.	2
Course #10. Arthrogryposis (Congenital Redoria) and Iatrogenic Quadriceps Retraction Pathogenesis, clinical aspects, diagnosis, and rehabilitation strategies.	2
Course #11. Pediatric Traumatology: Morphofunctional and Radiological Peculiarities Specific anatomical and functional aspects of pediatric musculoskeletal trauma; radiological differences from adults.	2
Course #12. Fractures of the Upper Limb in Children Types, clinical presentation, radiological evaluation, conservative and surgical management, complications.	2
Course #13. Fractures and Epiphyseal Detachments of the Lower Limb in Children Clinical presentation, diagnosis, treatment approaches, follow-up, and growth considerations.	2
Course #14. Obstetric Paralysis of the Brachial Plexus Etiology, diagnosis, treatment principles, physical therapy, and long-term outcomes.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Congenital Malformations of the Musculoskeletal System (I) Clinical evaluation of pediatric patients with congenital malformations, interpretation of relevant radiological findings, and practical demonstration of orthopedic instruments and therapeutic devices.	2
Laboratory Work #2. Congenital Malformations of the Musculoskeletal System (II) Practical identification, physical examination techniques, and management strategies, including conservative and surgical interventions for congenital limb malformations.	2
Laboratory Work #3. Localized Osteochondropathies (I) Clinical assessment of localized osteochondropathies, emphasizing practical interpretation of diagnostic radiographic findings.	2

Laboratory Syllabus	Hours
Laboratory Work #4. Localized Osteochondropathies (II) Practical use and demonstration of specialized orthopedic instrumentation and therapeutic approaches for managing pediatric osteochondropathies.	2
Laboratory Work #5. Disorders of Osteogenesis (I) Clinical presentation and diagnostic imaging interpretation in patients with disorders of osteogenesis, including achondroplasia and osteogenesis imperfecta.	2
Laboratory Work #6. Disorders of Osteogenesis (II) Practical demonstrations of surgical and orthopedic treatment techniques specific to disorders of osteogenesis, incorporating specialized orthopedic instruments.	2
Laboratory Work #7. Infantile Cerebral Palsy (PCI-BMI Syndromes) – Clinical Practice Clinical assessment and practical management of musculoskeletal manifestations of cerebral palsy, with emphasis on orthopedic interventions and rehabilitation.	2
Laboratory Work #8. Carential Rickets (I) Clinical evaluation of pediatric rickets, including practical interpretation of radiographic images and case-based discussions.	2
Laboratory Work #9. Carential Rickets (II) Practical demonstrations of surgical interventions and orthopedic management strategies in rickets, focusing on specialized instruments and therapeutic techniques.	2
Laboratory Work #10. Pediatric Traumatology (I) Clinical assessment and radiological interpretation of pediatric musculoskeletal trauma cases, emphasizing practical diagnostic skills.	2
Laboratory Work #11. Pediatric Traumatology (II) Practical demonstrations of orthopedic surgical techniques, instrumentation, and immobilization methods used in pediatric trauma management.	2
Laboratory Work #12. Practical Techniques in Pediatric Orthopedic Imaging Hands-on session interpreting diagnostic imaging specific to pediatric orthopedic conditions, including specialized views and clinical implications.	2
Laboratory Work #13. Orthopedic Instrumentation and Techniques in Pediatrics Practical instruction in the use of orthopedic instruments and immobilization techniques (casting, splinting), with clinical discussions on therapeutic applications.	2
Laboratory Work #14. Comprehensive Review and Practical Examination – Pediatric Orthopedics & Traumatology Final interactive session integrating practical orthopedic and traumatological skills, clinical reasoning, and management strategies through clinical scenarios and skill assessments.	2

Minimum References:
1. Benson MKD, Fixsen JA, Macnicol MF, Parsch K. Children’s orthopaedics and fractures . 4th ed. London: Springer; 2010.
2. Herring JA. Tachdjian’s pediatric orthopaedics . 6th ed. Philadelphia: Elsevier; 2021.
3. Eastwood DM, Sanghrajka AP. Congenital deformities of the spine . London: Springer; 2018.
4. Flynn JM, Skaggs DL, Waters PM, editors. Rockwood and Wilkins’ fractures in children . 9th ed. Philadelphia: Wolters Kluwer; 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

15.09.2025

**Discipline Coordinator,
Lect. Vlad Costel**

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

**Course Coordinator,
Lect. Vlad Costel**

**Laboratory Coordinator,
Lect. Vlad Costel**

**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	PALLIATIVE CARE				
Didactic position, name and surname of the Discipline Coordinator	Lect. Kraft Alin, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Kraft Alin, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Kraft Alin, MD, PhD				
Discipline Code	MLE.4.8.8	Formative category of the discipline		SS	
Year of Study	IV	Semester	7	Type of the final evaluation (E, V)	E7
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					7
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	3
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	PALLIATIVE CARE
Specific professional competencies	C2 – Application of palliative care strategies; C3 – Holistic patient evaluation.
Transversal competencies	C5 – Compassionate communication; C6 – Ethical responsibility in end-of-life care.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Palliative Care. To develop understanding of clinical assessment and diagnostic reasoning relevant to Palliative Care. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Palliative Care. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Palliative Care.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Palliative Care. Explain key mechanisms, diagnostic principles and professional standards relevant to Palliative Care. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe principles of symptom control, end-of-life care and interdisciplinary management of terminal patients.
Skills	Assess patient needs and implement palliative therapeutic strategies.
Responsibilities/ Autonomy	Demonstrate ethical responsibility and empathy in caring for terminal patients.

Course Syllabus	Hours
Course #1. Palliative Care and Stroke Clinical aspects of acute stroke in the context of palliative care. Emergency response strategies, stabilization protocols, and supportive interventions. Focus on prevention and management of stroke-related complications in patients receiving palliative treatment.	2
Course #2. Care of Patients with Heart Failure Principles of symptom control and quality of life optimization in advanced heart failure.	2

Course Syllabus	Hours
Strategies for managing dyspnea, fatigue, edema, and psychological distress. Integration of pharmacological and non-pharmacological approaches within palliative care frameworks.	
Course #3. Care of Patients with Hepato-Biliary Diseases Assessment and palliative management of liver failure, biliary obstruction, and associated symptoms. Emphasis on ascites control, pruritus relief, nutritional support, and end-of-life considerations in hepatic pathology.	2
Course #4. Colloquium Structured session for synthesis and application of previously covered material. Evaluation of clinical reasoning, ethical considerations, and interdisciplinary approaches through discussion or case-based learning.	2
Course #5. Symptom Management and Palliative Care – Digestive Symptoms Identification and management of gastrointestinal symptoms in palliative care settings, including nausea, vomiting, constipation, diarrhea, and anorexia. Pathophysiological mechanisms and tailored treatment options across diverse patient profiles.	2
Course #6. Palliative Care – Neurological Symptoms and Hiccups Approach to neurological complications encountered in palliative care, including seizures, delirium, and motor dysfunction. Clinical understanding of persistent hiccups as a distressing symptom and its pharmacological and non-pharmacological management.	2
Course #7. Exam Recap Comprehensive review of course content, focusing on integration of knowledge, clinical priorities, and multidisciplinary care strategies in palliative medicine. Preparation for formal evaluation and consolidation of core principles.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Congenital Malformations of the Musculoskeletal System Clinical presentation and imaging characteristics of musculoskeletal congenital malformations. Interpretation of X-rays and relevant diagnostic criteria. Overview of instruments and orthopedic devices specific to each condition. Case-based discussions illustrating clinical management pathways.	2
Laboratory Work #2. Localized Osteochondropathies Radiological evaluation and clinical characteristics of localized osteochondral disorders. Demonstration of disease-specific tools and orthopedic approaches. Analysis of clinical cases with focus on diagnosis and therapeutic strategy.	2
Laboratory Work #3. Disorders of Osteogenesis Examination of clinical cases involving osteogenesis disorders, with emphasis on diagnostic imaging and surgical management. X-ray interpretation and presentation of relevant orthopedic instruments. Demonstration of surgical interventions where applicable.	2
Laboratory Work #4. Infantile Cerebral Palsy (PCI-BMI Syndromes) Overview of clinical manifestations and classification of infantile cerebral palsy syndromes. Functional evaluation, rehabilitation strategies, and orthopedic implications in long-term care. Case discussions highlighting individualized therapeutic approaches.	2
Laboratory Work #5. Carential Rickets Clinical and radiographic presentation of nutritional rickets. Identification of characteristic deformities and pathophysiological features. Presentation of disease-specific instruments and therapeutic interventions, including surgical demonstrations.	2
Laboratory Work #6. Pediatric Traumatology Evaluation of pediatric trauma cases with focus on fracture patterns and age-specific	2

Laboratory Syllabus	Hours
considerations. X-ray interpretation and case analysis in clinical settings. Presentation of orthopedic tools and surgical techniques relevant to pediatric injuries.	
Laboratory Work #7. Pathology of the Abdominal Wall Assessment of congenital and acquired abdominal wall pathologies in pediatric and palliative contexts. Clinical presentation, diagnostic criteria, and management principles, with attention to surgical and non-surgical approaches.	2

Minimum References:
1. Cherny NI, Fallon M, Kaasa S, Portenoy RK, Currow DC, editors. Oxford textbook of palliative medicine . 6th ed. Oxford: Oxford University Press; 2020.
2. Fallon M, Hanks G, Cherny NI, Christakis NA, Portenoy RK, editors. Oxford handbook of palliative medicine . 4th ed. Oxford: Oxford University Press; 2020.
3. Kaasa S, Loge JH, Aapro M, editors. Textbook of palliative medicine . 2nd ed. Cham: Springer; 2020.
4. European Association for Palliative Care. EAPC atlas of palliative care in Europe . Vilvoorde: EAPC Press; 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 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,
Lect. Kraft Alin

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

Course Coordinator,
Lect. Kraft Alin

Laboratory Coordinator,
Lect. 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	RHEUMATOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Assoc.Prof. Anghel Daniela				
Didactic position, name and surname for the Course Coordinator	Assoc.Prof. Anghel Daniela				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc.Prof. Anghel Daniela PhD.Candidate Prioteasa Oana				
Discipline Code	MLE.4.8.9	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	RHEUMATOLOGY
Specific professional competencies	C1 – Identification of rheumatologic manifestations; C2 – Application of diagnostic strategies.
Transversal competencies	C4 – Analytical reasoning; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Rheumatology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Rheumatology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Rheumatology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Rheumatology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Rheumatology. Explain key mechanisms, diagnostic principles and professional standards relevant to Rheumatology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe autoimmune and inflammatory mechanisms underlying rheumatologic diseases.
Skills	Interpret clinical signs and laboratory markers associated with rheumatic diseases.
Responsibilities/ Autonomy	Integrate clinical findings responsibly in the management of chronic rheumatologic conditions.

Course Syllabus	Hours
Course #1. Evaluation of the Patient with Rheumatic Diseases Principles of clinical assessment in rheumatology, including history taking, physical examination, and identification of musculoskeletal signs. Use of laboratory markers and imaging techniques in establishing diagnosis and monitoring disease progression.	2
Course #2. General Immunology. Inflammation Overview of immune system function relevant to rheumatic pathology. Mechanisms of acute	2

Course Syllabus	Hours
and chronic inflammation, with emphasis on cytokine networks, autoimmunity, and immune-mediated tissue damage.	
Course #3. Therapy in Rheumatic Diseases Classification and mechanisms of action of pharmacologic agents used in rheumatology, including NSAIDs, corticosteroids, DMARDs, and biologics. Indications, contraindications, and monitoring of treatment response and adverse effects.	2
Course #4. Rheumatoid Arthritis and Related Diseases Etiopathogenesis, clinical features, and classification criteria for rheumatoid arthritis and overlapping syndromes. Diagnostic strategies and therapeutic management with a focus on early intervention and disease modification.	2
Course #5. Seronegative Spondylarthritis Group classification and clinical characteristics of seronegative spondyloarthritides, including ankylosing spondylitis, psoriatic arthritis, reactive arthritis, and enteropathic arthritis. Diagnostic markers, imaging findings, and treatment options.	2
Course #6. Systemic Lupus Erythematosus Immunopathogenesis and systemic manifestations of lupus. Diagnostic approach incorporating immunological markers and clinical criteria. Principles of management based on disease severity and organ involvement.	2
Course #7. Mixed Connective Tissue Disease Definition and clinical spectrum of mixed connective tissue disease. Serological profile and differentiation from other autoimmune conditions. Multisystem involvement and therapeutic considerations.	2
Course #8. Systemic Scleroderma Classification and clinical forms of systemic sclerosis. Pathophysiological mechanisms involving vascular dysfunction and fibrosis. Cutaneous and visceral manifestations, with focus on disease monitoring and management strategies.	2
Course #9. Sjögren's Syndrome (Primary and Secondary) Diagnostic criteria and clinical features of primary and secondary Sjögren's syndrome. Assessment of glandular and extraglandular involvement. Serological markers and therapeutic principles.	2
Course #10. Idiopathic Inflammatory Myopathies Clinical classification and histopathological features of polymyositis, dermatomyositis, and inclusion body myositis. Diagnostic criteria, laboratory investigations, and treatment modalities including immunosuppressive therapy.	2
Course #11. Antiphospholipid Syndrome (Primary and Secondary) Pathophysiology and clinical manifestations of antiphospholipid antibody syndrome. Diagnostic criteria including laboratory testing and thrombotic risk assessment. Management of thrombosis and obstetric complications.	2
Course #12. Systemic Vasculitis Classification of vasculitic syndromes based on vessel size and clinical presentation. Pathogenic mechanisms, diagnostic strategies, and immunosuppressive treatment approaches in primary and secondary vasculitis.	2
Course #13. Arthritis Induced by Microcrystals. Metabolic Bone Disease. Other Rheumatic Disorders Clinical characteristics and pathogenesis of gout and calcium pyrophosphate deposition disease. Overview of metabolic bone disorders such as osteoporosis. Diagnostic and therapeutic aspects of fibromyalgia, low back pain, and abarticular rheumatism.	2

Course Syllabus	Hours
<p>Course #14. Infectious Arthritis and Amyloidosis. Rheumatic Manifestations in Other Diseases</p> <p>Etiology, clinical presentation, and diagnostic evaluation of infectious arthritis and systemic amyloidosis. Review of rheumatic symptoms occurring in the context of malignancies, endocrine, or metabolic disorders.</p>	2

Laboratory Syllabus	Hours
<p>Laboratory Work #1. Clinical Examination of the Patient with Rheumatic Diseases</p> <p>Structured approach to physical examination in rheumatology, including joint inspection, palpation, range of motion assessment, and detection of extra-articular manifestations. Emphasis on identification of signs relevant to inflammatory and degenerative pathologies.</p>	2
<p>Laboratory Work #2. Drawing Up the Observation Sheet of the Patient with Rheumatic Pathology</p> <p>Documentation standards for rheumatology case histories. Structured recording of anamnesis, clinical findings, differential diagnoses, investigations, and therapeutic plans in alignment with clinical protocols.</p>	2
<p>Laboratory Work #3. Paraclinical Exploration – Laboratory Tests – of the Patient with Rheumatic Pathology</p> <p>Interpretation of hematological, biochemical, immunological, and inflammatory markers relevant to rheumatic conditions. Application of diagnostic criteria incorporating serological findings.</p>	2
<p>Laboratory Work #4. Paraclinical – Imaging – Exploration of the Patient with Rheumatic Pathology</p> <p>Utilization and interpretation of imaging modalities including conventional radiography, ultrasound, CT, and MRI in the diagnosis and monitoring of musculoskeletal and systemic manifestations.</p>	2
<p>Laboratory Work #5. Medical Assistance of the Patient with Rheumatic Pathology</p> <p>Principles of nursing and clinical support tailored to rheumatologic patients. Pain management, joint protection strategies, mobility support, and patient education in outpatient and inpatient settings.</p>	2
<p>Laboratory Work #6. Invasive Diagnostic and Treatment Maneuvers in Rheumatic Diseases</p> <p>Techniques and indications for joint aspiration, synovial fluid analysis, and joint biopsy. Aseptic procedures, anatomical landmarks, and management of post-procedural care.</p>	2
<p>Laboratory Work #7. Interdisciplinary Consultations in Patients with Autoimmune Rheumatic Diseases</p> <p>Coordination with other specialties including nephrology, dermatology, pulmonology, and cardiology in the management of systemic autoimmune conditions. Role of multidisciplinary teams in holistic patient care.</p>	2
<p>Laboratory Work #8. Principles of Treatment in Rheumatology</p> <p>Overview of pharmacologic and non-pharmacologic treatment strategies. Indications, administration, and monitoring of NSAIDs, corticosteroids, DMARDs, biologics, and adjunct therapies.</p>	2
<p>Laboratory Work #9. Control and Monitoring of Chronic Degenerative Rheumatic Diseases</p> <p>Follow-up protocols for conditions such as osteoarthritis and spinal osteochondrosis. Evaluation of disease progression, therapeutic response, and functional impact over time.</p>	2
<p>Laboratory Work #10. Control and Monitoring of Chronic Autoimmune Rheumatic Diseases</p> <p>Longitudinal assessment strategies for rheumatoid arthritis, systemic lupus erythematosus,</p>	2

Laboratory Syllabus	Hours
systemic sclerosis, polymyositis, seronegative spondyloarthritides, and Sjögren's syndrome. Monitoring of treatment efficacy and adverse effects.	
Laboratory Work #11. Control and Monitoring of Microcrystal-Induced Arthropathies Management and follow-up of patients with gout and calcium pyrophosphate deposition disease. Monitoring of urate levels, lifestyle interventions, and therapeutic adherence.	2
Laboratory Work #12. Control and Monitoring of Metabolic Bone Diseases Evaluation and longitudinal care of osteoporosis, Paget's disease, and aseptic osteonecrosis. Interpretation of densitometry, biochemical markers, and risk stratification tools.	2
Laboratory Work #13. Control and Monitoring of Systemic Vasculitis Surveillance of vasculitic disease activity, organ involvement, and treatment-related complications. Application of disease activity indices and laboratory monitoring.	2
Laboratory Work #14. Evaluation of Rheumatic Pathology Associated with Other Systemic Diseases Recognition and assessment of rheumatic manifestations secondary to endocrine, neoplastic, infectious, or hematologic conditions. Integration of rheumatologic findings into the broader diagnostic and therapeutic context.	2

Minimum References:
1. Ralston SH, McInnes IB. Davidson's rheumatology . 2nd ed. Edinburgh: Elsevier; 2018.
2. Hochberg MC, Silman AJ, Smolen JS, Weinblatt ME, Weisman MH, editors. Rheumatology . 7th ed. Philadelphia: Elsevier; 2019.
3. Firestein GS, Budd RC, Gabriel SE, McInnes IB, O'Dell JR, editors. Firestein & Kelley's textbook of rheumatology . 11th ed. Philadelphia: Elsevier; 2021.
4. British Society for Rheumatology. Oxford handbook of rheumatology . 4th 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
-

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
09.09.2025

Discipline Coordinator,
Assoc.Prof. Anghel Daniela

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

Course Coordinator,
Assoc.Prof. Anghel Daniela

Laboratory Coordinator,
Assoc.Prof. Anghel Daniela
PhD.Candidate Prioteasa Oana

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	NEUROLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lect. Furdu-Lunguț Emilia				
Didactic position, name and surname for the Course Coordinator	Lect. Furdu-Lunguț Emilia				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	PhD.Candidate Iordache Marius				
Discipline Code	MLE.4.8.10	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	NEUROLOGY
Specific professional competencies	C1 – Recognition of neurological signs; C2 – Application of neurological diagnostic methods.
Transversal competencies	C5 – Patient communication; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Neurology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Neurology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Neurology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Neurology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Neurology. Explain key mechanisms, diagnostic principles and professional standards relevant to Neurology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain neurological mechanisms, clinical manifestations and diagnostic principles of neurological diseases.
Skills	Perform neurological examination and interpret neurological diagnostic tests.
Responsibilities/ Autonomy	Apply clinical reasoning in neurological evaluation under supervision.

Course Syllabus	Hours
Course #1. Introductory Course. History of Neurology. Neuron Structure and Function Overview of the historical evolution of neurology and key milestones in the development of neuroscientific knowledge. Anatomy and physiology of the neuron, including membrane potentials and synaptic transmission. Introduction to relevant concepts in molecular biology and neuronal electrophysiology. Organization and functional architecture of the central and peripheral nervous systems.	2

Course Syllabus	Hours
<p>Course #2. Central and Peripheral Motor Neuron Syndromes. Extrapyramidal Syndromes Pathophysiological mechanisms and clinical features of central motor neuron (pyramidal) and peripheral motor neuron syndromes. Functional anatomy and physiology of extrapyramidal systems. Classification, clinical manifestations, and differential diagnosis of extrapyramidal syndromes.</p>	2
<p>Course #3. Cerebellar, Vestibular, and Sensory Syndromes Physiology and dysfunction of the cerebellum and vestibular systems. Clinical patterns and semiology associated with cerebellar and vestibular pathology. Overview of sensory syndromes, with emphasis on dissociated sensory loss characteristic of tabetic and syringomyelic patterns.</p>	2
<p>Course #4. Control Work: Organization and Functioning of the Nervous System Structured assessment of core concepts related to the structural and functional organization of the nervous system. Integration of theoretical knowledge through applied and evaluative components.</p>	2
<p>Course #5. Pathology of the Peripheral Nervous System Classification and clinical aspects of peripheral nerve disorders, including plexopathies, mononeuropathies, and polyradiculopathies. Etiology, pathogenesis, and principles of diagnosis and management.</p>	2
<p>Course #6. Cranial Nerves: Anatomy, Function, and Disorders Anatomical pathways and physiological roles of the cranial nerves. Clinical features of cranial nerve dysfunction and associated pathologies. Principles of diagnosis, investigation, and treatment.</p>	2
<p>Course #7. Crises of Loss of Consciousness and Epilepsy Differential diagnosis of transient loss of consciousness. Classification, etiology, and pathophysiology of epileptic syndromes. Diagnostic strategies and current therapeutic approaches to epilepsy, including pharmacologic and non-pharmacologic interventions.</p>	2
<p>Course #8. Cerebral Vascularization and Stroke Anatomy and physiology of cerebral circulation. Risk factors, prevention, and pathophysiological classification of stroke, including ischemic, transient ischemic, and hemorrhagic forms. Clinical presentation, diagnostic workup, and management. Special considerations for stroke in young individuals and cerebral venous thrombosis. Role of stroke units and interventional neurology.</p>	2
<p>Course #9. Neuroinfections Classification and etiological spectrum of infections affecting the nervous system. Pathogenesis, clinical presentation, diagnostic criteria, and treatment options for bacterial, viral, fungal, and parasitic neuroinfections.</p>	2
<p>Course #10. Craniocerebral and Vertebro-medullary Trauma Epidemiology, pathophysiology, and clinical presentation of traumatic brain and spinal cord injuries. Emergency management, neurorehabilitation strategies, and mechanisms of recovery including neuroplasticity, neurogenesis, synaptogenesis, and angiogenesis.</p>	2
<p>Course #11. Brain and Spinal Cord Tumors. Intracranial Hypertension Classification, clinical features, and diagnostic approach to central nervous system tumors. Pathophysiology and semiology of intracranial hypertension. Tumors of the spinal cord and associated neurological deficits. Therapeutic options and prognosis.</p>	2
<p>Course #12. Encephalopathies and Coma Definition, classification, and pathophysiological mechanisms underlying encephalopathy and coma. Clinical assessment and diagnostic evaluation. Management strategies tailored to etiology and severity.</p>	2

Course Syllabus	Hours
Course #13. Acute Respiratory Failure of Neurological Origin. Neuromuscular Pathology Neurological conditions leading to acute respiratory insufficiency. Overview of hereditary and acquired neuromuscular diseases, including their clinical manifestations, diagnostic workup, and treatment principles.	2
Course #14. Myasthenia and Myasthenic Syndromes Pathophysiological basis of myasthenia gravis and related syndromes. Clinical semiology, diagnostic criteria, and therapeutic strategies, including pharmacological and immunological interventions.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Anamnesis in Neurology Structured approach to neurological history taking, with emphasis on the chronology of symptoms, functional impact, and identification of risk factors. Techniques for eliciting relevant information in acute and chronic neurological presentations.	4
Laboratory Work #2. Paraclinical Investigations in Neurology Overview of diagnostic tools including neuroimaging (CT, MRI), electrophysiological studies (EEG, EMG, nerve conduction studies), and cerebrospinal fluid analysis. Indications, interpretation principles, and role in diagnostic confirmation and disease monitoring.	4
Laboratory Work #3. Neurological Clinical Examination Comprehensive neurological examination techniques encompassing mental status, cranial nerves, motor and sensory systems, coordination, and reflexes. Standardized documentation and interpretation of findings in various neurological contexts.	6
Laboratory Work #4. Neurological Syndromes (NMC, NMP, Aphasias, Apraxias, Cranial Neuropathies) Identification and clinical characterization of central and peripheral motor neuron syndromes. Recognition of higher cortical dysfunctions including aphasia and apraxia. Assessment and localization of cranial nerve deficits in diverse clinical scenarios.	6
Laboratory Work #5. Examination of the Comatose Patient Neurological assessment of consciousness using standardized scales. Evaluation of brainstem reflexes, motor responses, and respiratory patterns. Differential diagnosis of coma and principles of initial management.	4
Laboratory Work #6. Examination of the Vascular Patient Neurological evaluation of patients with suspected or confirmed cerebrovascular disease. Recognition of stroke syndromes, vascular territories, and associated deficits. Principles of acute assessment and functional monitoring.	4

Minimum References:
1. Ropper AH, Samuels MA, Klein JP, Prasad S. Adams and Victor's principles of neurology . 11th ed. New York: McGraw-Hill Education; 2019.
2. Donaghy M, editor. Brain's diseases of the nervous system . 13th ed. Oxford: Oxford University Press; 2019.
3. Kumar P, Clark M, editors. Kumar and Clark's clinical medicine . 10th ed. Edinburgh: Elsevier; 2020. (<i>Neurology sections widely used in UK/EU undergraduate teaching</i>)
4. Gilman S. Clinical neurology . 10th 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

-

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

12.09.2025

**Discipline Coordinator,
Lect. Furdu-Lungu Emilia**

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

**Course Coordinator,
Lect. Furdu-Lunguț Emilia**

**Laboratory Coordinator,
PhD.Candidate Iordache Marius**

**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. Moldovan Alec Cosmin				
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Moldovan Alec Cosmin				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc. Prof. Moldovan Alec Cosmin				
Discipline Code	MLE.4.8.11	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	C2 – Application of surgical treatment principles; C3 – Surgical patient evaluation.
Transversal competencies	C5 – Surgical team collaboration; C6 – Professional conduct.
General objectives of the discipline	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 principles, practical applications and patient-safety considerations in General Surgery (II). To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in General Surgery (II).
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in General Surgery (II). Explain key mechanisms, diagnostic principles and professional standards relevant to General Surgery (II). Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe advanced surgical techniques and management of complex surgical pathologies.
Skills	Analyze clinical data and support therapeutic decisions in surgical cases.
Responsibilities/ Autonomy	Participate responsibly in perioperative management under supervision.

Course Syllabus	Hours
Course #1. Acute Pancreatitis. Acute Hemorrhagic Abdomen Pathophysiological mechanisms, clinical forms, and complications of acute pancreatitis. Diagnostic criteria and classification of severity. Definition and differential diagnosis of acute hemorrhagic abdomen. Emergency management strategies and surgical indications.	2
Course #2. Intestinal Occlusion. Enterogenic Infarction Etiology and classification of mechanical and functional intestinal obstruction. Clinical features,	2

Course Syllabus	Hours
imaging findings, and surgical approaches. Pathogenesis and clinical presentation of enterogenic infarction. Principles of diagnosis, intraoperative findings, and therapeutic strategies.	
Course #3. Diffuse and Localized Acute Peritonitis. Acute Appendicitis. Perforated Ulcer Mechanisms of peritoneal inflammation and classification of peritonitis. Clinical evaluation and surgical management of acute appendicitis and perforated gastroduodenal ulcers. Diagnostic imaging and criteria for urgent intervention.	2
Course #4. Cirrhosis of the Liver, Portal Hypertension, and Hypersplenism Pathogenesis and clinical implications of hepatic cirrhosis. Hemodynamic alterations leading to portal hypertension and hypersplenism. Complications such as ascites and variceal bleeding. Surgical and non-surgical treatment modalities.	2
Course #5. Peripheral Arterial Vascular Diseases Clinical syndromes associated with peripheral arterial occlusion, including acute ischemia and chronic atherosclerotic disease. Specific entities such as thromboangiitis obliterans. Diagnostic evaluation and surgical principles in arterial reconstruction and revascularization.	2
Course #6. Peripheral Venous and Lymphatic Vascular Disorders Pathology and clinical presentation of varicose disease and deep vein thrombosis. Post-thrombotic syndrome and chronic venous insufficiency. Management strategies including anticoagulant therapy. Diagnostic and therapeutic aspects of deep phlebitis and lymphatic disorders of the lower limbs.	2
Course #7. Modern Concepts in Sepsis and Principles of Surgical Antibiotherapy Current understanding of sepsis pathophysiology, including systemic inflammatory response and organ dysfunction. Diagnostic criteria, risk stratification, and management. Principles guiding surgical source control and selection of perioperative antibiotic regimens.	2
Course #8. Traumatic Pathology: Thoracoabdominal Trauma Evaluation and management of blunt and penetrating trauma to the thoracic and abdominal cavities. Diagnostic imaging, hemodynamic stabilization, and operative strategies. Criteria for conservative versus surgical approaches in polytrauma.	2
Course #9. Benign Surgical Pathology of the Mammary Gland Classification and clinical features of inflammatory and dystrophic breast conditions. Diagnostic criteria for benign tumors such as fibroadenomas. Principles of surgical excision and differential diagnosis with malignant pathology.	2
Course #10. Malignant Surgical Pathology of the Mammary Gland Precancerous conditions and classification of breast cancer. Diagnostic algorithms, staging, and treatment planning. Indications and techniques for palliative versus radical surgical interventions.	2
Course #11. Benign Thyroid Pathology Epidemiology and pathophysiology of endemic goiter and inflammatory thyroid diseases. Clinical, laboratory, and imaging evaluation. Surgical indications and operative techniques in benign thyroid enlargement and thyroiditis.	2
Course #12. Malignant Thyroid Pathology Classification and staging of thyroid malignancies. Diagnostic methods and therapeutic strategies. Indications for palliative measures and criteria for radical surgical intervention, including total thyroidectomy and lymph node dissection.	2
Course #13. Hypovolemic, Anaphylactic, and Cardiogenic Shock Pathophysiological mechanisms underlying different forms of shock. Clinical recognition and hemodynamic assessment. Emergency resuscitation protocols and treatment strategies based on etiology and severity.	2

Course Syllabus	Hours
Course #14. Burns and Combustional Shock Classification and pathophysiology of thermal injuries. Local and systemic response to burns. Diagnosis and management of combustional shock. Principles of fluid resuscitation, infection control, and surgical intervention.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Presentation of Clinical Cases for Surgical Competitions Development and delivery of structured clinical case presentations. Emphasis on diagnostic reasoning, surgical decision-making, and evidence-based justification. Preparation for academic competitions and clinical case evaluations.	2
Laboratory Work #2. Preoperative Preparation and Postoperative Care Protocols for preoperative assessment, risk stratification, and optimization of comorbid conditions. Postoperative monitoring, complication prevention, and early detection strategies. Principles of wound care, pain management, and rehabilitation.	4
Laboratory Work #3. Assessment of Surgical Risk and Anesthetic-Surgical Risk Scales Identification and evaluation of systemic dysfunctions affecting surgical outcomes. Use of standardized risk assessment tools such as ASA classification, POSSUM, and other surgical scoring systems. Integration of risk profiles into perioperative planning.	4
Laboratory Work #4. Surgical Bleeding and Transfusion Classification and management of intraoperative and postoperative hemorrhage. Indications for blood transfusion and use of blood components. Strategies for minimizing blood loss and managing coagulopathies.	4
Laboratory Work #5. Localized and Generalized Surgical Infections. Antibiotherapy in Surgery Diagnosis and classification of surgical infections, including surgical site infections and sepsis. Indications and protocols for antibiotic prophylaxis and therapy. Resistance considerations and antimicrobial stewardship in surgical practice.	4
Laboratory Work #6. Upper and Lower Digestive Endoscopy. Endoscopic Retrograde Cholangiopancreatography (ERCP) Indications, techniques, and diagnostic value of gastrointestinal endoscopy. Procedure steps and interpretation of findings in upper and lower endoscopic evaluation. ERCP technique and its role in diagnostic and therapeutic biliopancreatic interventions.	4
Laboratory Work #7. Current Techniques in Laparoscopic Surgery Principles of minimally invasive surgical techniques. Instrumentation, access methods, and procedural steps in standard laparoscopic interventions. Comparison with open surgery in terms of indications, outcomes, and complication profiles.	4
Laboratory Work #8. Practical Examination Assessment of acquired skills and theoretical knowledge through structured practical evaluation. Focus on surgical reasoning, technical procedures, and clinical decision-making.	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. 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.
3. Garden OJ, Parks RW, Wigmore SJ, editors. Principles and practice of surgery. 7th ed. Edinburgh: Elsevier; 2021.

Minimum References:

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:

- 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

09.09.2025

**Discipline Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

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

**Course Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

**Laboratory Coordinator,
Assoc.Prof. Moldovan Alec Cosmin**

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	ENDOCRINOLOGY				
Didactic position, name and surname of the Discipline Coordinator	PhD. Grigoraşcu Lucica				
Didactic position, name and surname for the Course Coordinator	PhD. Grigoraşcu Lucica				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	PhD. Grigoraşcu Lucica Lect. Comănici Adrian				
Discipline Code	MLE.4.8.12	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	ENDOCRINOLOGY
Specific professional competencies	C1 – Identification of endocrine pathology; C2 – Interpretation of hormonal investigations.
Transversal competencies	C4 – Analytical reasoning; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Endocrinology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Endocrinology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Endocrinology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Endocrinology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Endocrinology. Explain key mechanisms, diagnostic principles and professional standards relevant to Endocrinology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe hormonal regulation mechanisms and endocrine diseases.
Skills	Interpret hormonal laboratory tests and clinical manifestations of endocrine disorders.
Responsibilities/ Autonomy	Integrate clinical data in the evaluation and management of endocrine patients.

Course Syllabus	Hours
Course #1. General Endocrinology Definition and structural organization of the endocrine system. Concept of endocrine universality as a form of intercellular biochemical communication. Functional unit of the system: hormone-secreting cell, target cell, and hormone-receptor complex. Role of genetic determinism and environmental factors in endocrine regulation. Overview of hypothalamic, pituitary, thyroid, adrenal, and gonadal hormones. Introduction to endocrine receptors and	2

Course Syllabus	Hours
receptor pathology. Foundations of clinical and experimental endocrinology. Historical evolution and future directions of medical endocrinology.	
Course #2. Hypothalamus: Physiology and Pathology Anatomical and physiological characteristics of the hypothalamus. Mechanisms of neuroendocrine integration. Methods for morphofunctional assessment. Endocrine disorders associated with hypothalamic dysfunction, including alterations in thermoregulation, appetite, and hormone regulation.	2
Course #3. Posterior Pituitary and Pineal Gland Mechanisms of antidiuretic hormone secretion and associated disorders such as diabetes insipidus and SIADH. Acid-base imbalances related to neuroendocrine regulation. Anatomical and functional aspects of the pineal gland and its involvement in circadian rhythms and endocrine modulation.	2
Course #4. Pituitary Pathology Classification and clinical presentation of pituitary tumors, including secreting and non-secreting forms. Etiology and features of pituitary insufficiency, pituitary dwarfism, and pituitary coma. Diagnostic strategies and therapeutic interventions.	2
Course #5. General Notions of Auxology Principles of normal and abnormal growth and development. Assessment tools and growth standards. Endocrine disorders associated with growth disturbances, including growth hormone deficiency and excess.	2
Course #6. Thyroid: Morphology, Function, and Disorders Anatomy, physiology, and morphofunctional evaluation of the thyroid gland. Endocrine disorders related to iodine deficiency, hyperthyroidism, hypothyroidism, thyrotoxic crisis, myxedema coma, and inflammatory thyroiditis.	2
Course #7. Nodular Thyroid Disease and Endocrine Tumors Classification and evaluation of nodular thyroid pathology. Diagnosis and management of thyroid cancer. Overview of multiple endocrine neoplasia syndromes. Gastrointestinal and pancreatic endocrine tumors: clinical manifestations, diagnostic tools, and treatment principles.	2
Course #8. Parathyroid Pathology and Bone Metabolism Disorders Morphology and physiology of the parathyroid glands. Regulation of phosphocalcic homeostasis via vitamin D ₃ , parathyroid hormone (PTH), and calcitonin. Clinical syndromes including hyperparathyroidism, acute hypercalcemia, hypoparathyroidism, and acute hypocalcemia. Associated bone disorders such as osteomalacia, rickets, and osteoporosis.	2
Course #9. Adrenal Pathology Etiology and pathogenesis of adrenal disorders including acute and chronic adrenal insufficiency, Cushing's syndrome, hyperaldosteronism, and congenital adrenal hyperplasia. Clinical features of pheochromocytoma and paraganglioma. Endocrine hypertension and principles of glucocorticoid therapy.	2
Course #10. Disorders of Sexual Development and Puberty Mechanisms of sexual differentiation and hormonal regulation of puberty. Clinical forms of early and delayed puberty. Gonadal pathologies including primary and secondary amenorrhea, hirsutism, and hyperestrogenism, with their physiological and pathological consequences.	2
Course #11. Ovarian Pathology and Reproductive Endocrinology Morphological and functional evaluation of the ovaries. Disorders such as Turner syndrome, Klinefelter syndrome, androgen insensitivity, ovarian failure, and polycystic ovary syndrome. Endocrine aspects of infertility, hormonal contraception, and menopause.	2

Course Syllabus	Hours
Course #12. Testicular Pathology and Male Reproductive Endocrinology Pathophysiology and clinical features of cryptorchidism, orchitic insufficiency, and gonadal tumors. Evaluation and management of erectile dysfunction. Diagnostic and therapeutic approaches in male and female endocrine infertility.	2
Course #13. Imaging in Endocrinology Diagnostic imaging techniques used in the evaluation of endocrine disorders, including ultrasound, CT, MRI, and nuclear medicine. Indications, interpretation principles, and integration into diagnostic algorithms.	2
Course #14. Behavioral and Metabolic Disorders in Endocrinology Clinical approach to dizziness and balance disorders of endocrine origin. Diagnosis and management of eating disorders such as anorexia nervosa and bulimia. Hormonal regulation of carbohydrate, lipid, and protein metabolism. Recognition and management of endocrine-metabolic emergencies. Roles and responsibilities of healthcare professionals in critical endocrine care.	2

Laboratory Syllabus	Hours
Laboratory Work #1. General Evaluation of the Endocrinological Patient Presentation of the general clinical observation sheet used in endocrinology. Introduction to the administrative and organizational responsibilities of the chief nurse. Structure and functioning of the medical assistance service in an endocrinology clinic, including patient flow and interdisciplinary coordination.	2
Laboratory Work #2. Pituitary Disorders Clinical approach to acromegaly, gigantism, amenorrhea-galactorrhea syndrome, and prolactinoma. Diagnosis and management of Cushing's disease, nonfunctional pituitary adenomas, pituitary isolation syndrome, craniopharyngioma, and diabetes insipidus. Protocols for evaluation and patient care.	2
Laboratory Work #3. Pituitary Dwarfism and Auxology Assessment of short stature and growth failure. Diagnostic and therapeutic protocols for pituitary dwarfism. Methodology of dynamic testing, laboratory investigations, and imaging studies. Techniques of patient care adapted to developmental needs.	2
Laboratory Work #4. Thyroid Insufficiency and Autoimmune Thyroid Disease Clinical characteristics and care strategies for hypothyroidism in adults and children, including congenital myxedema. Management of Basedow-Graves disease, thyroiditis, and endemic goiter. Emphasis on diagnostic evaluation and monitoring.	2
Laboratory Work #5. Nodular Thyroid Disease and Thyroid Cancer Diagnostic and therapeutic approach to thyroid nodules and malignancies. Preoperative and postoperative care procedures. Indications for imaging, biopsy, and surgical intervention. Monitoring protocols for recurrence and complications.	2
Laboratory Work #6. Parathyroid Pathology and Bone Metabolism Evaluation and management of hyperparathyroidism, hypoparathyroidism, and osteoporosis. Interpretation of calcium-phosphate balance and hormonal regulation. Nursing techniques and paraclinical procedures for monitoring and therapeutic support.	2
Laboratory Work #7. Adrenal Pathology Assessment and care of patients with Cushing's syndrome, chronic and acute adrenal insufficiency, hyperaldosteronism, pheochromocytoma, and adrenogenital syndrome. Clinical monitoring, medication protocols, and emergency management procedures.	2

Laboratory Syllabus	Hours
Laboratory Work #8. Gonadal Syndromes and Reproductive Endocrinology Clinical approach to Klinefelter syndrome, Turner syndrome, androgen insensitivity syndrome, polycystic ovary syndrome, and hirsutism. Investigation and management of couple infertility from an endocrine perspective. Use of hormonal and imaging studies.	2
Laboratory Work #9. Pubertal Disorders and Cryptorchidism Evaluation of early and delayed puberty. Diagnostic protocol for cryptorchidism and related hormonal dysfunctions. Interpretation of developmental milestones and endocrine maturation indices.	2
Laboratory Work #10. Obesity and Hypoglycemic Syndrome Clinical evaluation and management of obesity and hypoglycemia in endocrine settings. Hormonal assessments, dietary interventions, and pharmacological considerations. Risk identification and preventive strategies.	2
Laboratory Work #11. Mammary Gland Pathology and Iatrogenic Endocrinopathies Evaluation of endocrine-related breast disorders and gynecomastia. Identification of endocrine imbalances secondary to pharmacologic interventions. Monitoring and care strategies in iatrogenic conditions.	2
Laboratory Work #12. Menopause and Associated Disorders Clinical aspects of menopause, including vasomotor symptoms, metabolic changes, and long-term complications. Therapeutic interventions and patient education. Hormonal therapy and follow-up protocols.	2
Laboratory Work #13. Imaging in Endocrinology Application of imaging modalities in endocrine diagnostics, including ultrasound, CT, MRI, and nuclear medicine. Technique, preparation, and interpretation of findings relevant to various endocrine glands.	2
Laboratory Work #14. Protocols, Investigations, and Laboratory Techniques Overview of diagnostic and therapeutic protocols used in endocrinology. Collection and handling of biological samples. Interpretation of hormonal results in clinical context. Methodology of patient care in laboratory and clinical procedures.	2

Minimum References:
1. Melmed S, Auchus RJ, Goldfine AB, Koenig RJ, Rosen CJ, editors. Williams textbook of endocrinology . 14th ed. Philadelphia: Elsevier; 2020.
2. Jameson JL, De Groot LJ, de Kretser DM, Giudice LC, Grossman AB, Melmed S, et al., editors. Endocrinology: adult and pediatric . 8th ed. Philadelphia: Elsevier; 2022.
3. Holt RIG, Cockram CS, Flyvbjerg A, Goldstein BJ, editors. Textbook of diabetes . 5th ed. Oxford: Wiley-Blackwell; 2017.
4. Wass JAH, Stewart PM, editors. Oxford textbook of endocrinology and diabetes . 2nd ed. Oxford: Oxford University Press; 2011.
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:
<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,
PhD. Grigorașcu Lucica

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

Course Coordinator,
PhD. Grigorașcu Lucica

Laboratory Coordinator,
PhD. Grigorașcu Lucica
Lect. Comănici Adrian

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	ORTHOPEDICS AND TRAUMATOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lect. Anghelescu Dan, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Anghelescu Dan, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Anghelescu Dan, MD, PhD				
Discipline Code	MLE.4.8.13	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	ORTHOPEDECS AND TRAUMATOLOGY
Specific professional competencies	C1 – Recognition of orthopedic pathology; C3 – Evaluation of trauma patients.
Transversal competencies	C5 – Teamwork in trauma management; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Orthopedics and Traumatology. To develop understanding of clinical assessment and diagnostic reasoning relevant to Orthopedics and Traumatology. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Orthopedics and Traumatology. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Orthopedics and Traumatology.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Orthopedics and Traumatology. Explain key mechanisms, diagnostic principles and professional standards relevant to Orthopedics and Traumatology. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain mechanisms of musculoskeletal injuries and orthopedic pathologies.
Skills	Perform musculoskeletal examination and interpret imaging studies.
Responsibilities/ Autonomy	Apply safe clinical reasoning in orthopedic and trauma evaluation.

Course Syllabus	Hours
Course #1. Semiology of Traumatic and Nontraumatic Injuries of the Musculoskeletal System Clinical signs and diagnostic criteria for musculoskeletal pathology. Differentiation between traumatic and nontraumatic injuries. Overview of therapeutic approaches including conservative and surgical methods. Principles guiding the choice of treatment.	2

Course Syllabus	Hours
Course #2. Fractures of the Clavicle, Scapula, Humerus, Forearm, and Hand Classification, clinical presentation, and radiologic assessment of upper limb fractures. Therapeutic strategies and immobilization techniques. Functional implications and rehabilitation considerations.	2
Course #3. Dislocations and Joint Injuries of the Upper Limb Mechanisms and types of dislocations involving the shoulder, elbow, wrist, and hand. Associated soft tissue injuries and neurovascular complications. Diagnostic approach and principles of reduction and stabilization.	2
Course #4. Fractures of the Spine and Pelvis Classification and biomechanical considerations of vertebral and pelvic fractures. Neurological assessment, imaging, and therapeutic decision-making. Surgical and conservative management options based on fracture type and stability.	2
Course #5. Fractures of the Femur, Patella, and Leg Bones Etiopathogenesis and clinical features of lower limb fractures. Diagnostic imaging and fracture classification. Surgical and non-surgical treatments, including fixation techniques and rehabilitation protocols.	2
Course #6. Dislocations and Ligamentous Injuries of the Lower Limb Traumatic hip dislocation and complex knee injuries including ligament and meniscal damage. Pathology of the extensor apparatus and patellar dislocations. Sprains and dislocations of the ankle and foot. Diagnostic algorithms and therapeutic strategies.	2
Course #7. Complications of Musculoskeletal Injuries Definition and management of pseudarthrosis, malunion, and open fractures. Infection, delayed healing, and functional limitations as complications. Surgical correction techniques and preventive strategies.	2
Course #8. Polytrauma Definition, pathophysiological implications, and multidisciplinary management of polytraumatized patients. Prioritization of life-threatening injuries, orthopedic damage control, and staged surgical intervention.	2
Course #9. Bone and Joint Infections Acute and chronic osteomyelitis: etiopathogenesis, clinical course, and diagnostic approach. Tuberculosis with osteoarticular involvement. Parasitic bone infections. Therapeutic options and surgical indications.	2
Course #10. Bone Tumors Classification of benign and malignant bone tumors. Diagnostic criteria and imaging protocols. Therapeutic principles including surgical resection, chemotherapy, and radiotherapy. Specific conditions such as essential bone cysts and fibrous dysplasia.	2
Course #11. Congenital Malformations of the Musculoskeletal System Presentation and management of developmental abnormalities such as congenital hip dislocation, clubfoot, tibial pseudarthrosis, and epiphysiolysis. Diagnostic methods and treatment timing. Surgical correction techniques and outcomes.	2
Course #12. Spinal Deviations Pathogenesis and clinical evaluation of scoliosis, kyphosis, and kyphoscoliosis. Classification systems and criteria for progression. Therapeutic interventions including bracing, physiotherapy, and surgical correction.	2
Course #13. Osteonecrosis, Discopathies, and Foot Deformities Etiology and progression of osteonecrosis and degenerative disc disease. Static deformities of the foot, including flatfoot and cavus foot. Degenerative joint diseases and treatment strategies.	2

Course Syllabus	Hours
Course #14. Neurological Sequelae and Amputations Orthopedic consequences of neurological disorders such as poliomyelitis, brachial plexus palsy, and cerebral palsy. Principles of amputation surgery and stump care. Overview of prosthetic and orthopedic devices and their role in functional rehabilitation.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Semiology of Fractures, Sprains, and Dislocations Clinical assessment of fractures, ligament injuries, and joint dislocations. Techniques of postural splinting, application of plaster immobilization devices, orthoses, and external prostheses. Indications, procedures, and follow-up.	2
Laboratory Work #2. Upper Limb Fractures: Clinical and Therapeutic Aspects Semiological features and treatment principles for fractures of the clavicle, scapula, humerus, forearm, wrist, and hand. Immobilization techniques, surgical interventions, and functional recovery approaches.	2
Laboratory Work #3. Upper Limb Joint Injuries Clinical approach to sprains, dislocations, and joint wounds in the upper extremity. Emergency and scheduled interventions. Principles of joint reduction, stabilization, and rehabilitation strategies.	2
Laboratory Work #4. Fractures of the Spine and Pelvis Diagnostic and therapeutic approach to vertebral and pelvic fractures. Use of immobilization devices including plaster corsets and hammocks. Techniques of external and internal fixation. Criteria for surgical indication and post-treatment care.	2
Laboratory Work #5. Lower Limb Fractures and Follow-Up Care Methods for temporary immobilization and stabilization in femoral, patellar, tibial, and fibular fractures. Techniques of osteosynthesis. Principles of follow-up and management after hospital discharge, both ambulatory and home-based.	2
Laboratory Work #6. Reduction of Traumatic Dislocations Manual techniques and mimicked maneuvers for reducing dislocated joints. Assessment of joint stability post-reduction. Indications for surgical versus conservative management.	2
Laboratory Work #7. Complications of Musculoskeletal Injuries Clinical examples and diagnostic criteria for pseudarthrosis, malunion (vicious callus), and open fractures. Management of infection, instability, and functional impairment. Therapeutic planning and surgical options.	2
Laboratory Work #8. Polytrauma Management Clinical priorities and structured evaluation of polytraumatized patients. Multisystem assessment, orthopedic damage control, and principles of integrated surgical and critical care.	2
Laboratory Work #9. Bone and Joint Infections Semiology and management of osteitis, septic arthritis, tuberculous osteoarticular disease, and parasitic infections such as bone hydatid cysts. Diagnostic procedures, therapeutic strategies, and follow-up.	2
Laboratory Work #10. Bone Tumors: Clinical Approach and Monitoring Semiology of primary and metastatic bone tumors. Differentiation of benign and malignant lesions. Therapeutic decision-making, surgical strategies, and longitudinal monitoring of outcomes.	2
Laboratory Work #11. Musculoskeletal Malformations: Detection and Management Identification and evaluation of congenital and acquired deformities. Principles of corrective	2

Laboratory Syllabus	Hours
treatment including orthopedic devices and surgical correction. Monitoring of growth and therapeutic efficacy.	
Laboratory Work #12. Spinal Deviations: Prevention and Therapy Semiology of scoliosis, kyphosis, and kyphoscoliosis. Methods for early detection and risk assessment. Preventive and curative treatment strategies, including bracing and surgical options.	2
Laboratory Work #13. Degenerative and Structural Disorders of the Locomotor System Clinical evaluation of osteonecrosis, discopathies, and static foot deformities. Management of degenerative joint and spinal conditions. Conservative and surgical therapeutic principles.	2
Laboratory Work #14. Neurological Sequelae and Orthopedic Consequences Orthopedic manifestations of neurological disorders including poliomyelitis, brachial plexus palsy, and cerebral palsy. Principles of amputation, stump pathophysiology, and adaptation. Overview of prosthetic fitting and orthopedic device use.	2

Minimum References:
1. Court-Brown CM, Heckman JD, McQueen MM, Ricci WM, Tornetta P III, editors. Rockwood and Green's fractures in adults . 9th ed. Philadelphia: Wolters Kluwer; 2020.
2. Bentley G, editor. European surgical orthopaedics and traumatology . 2nd ed. Berlin: Springer; 2014.
3. Miller MD, Thompson SR, Hart JA. Review of orthopaedics . 8th ed. Philadelphia: Elsevier; 2020.
4. Bulstrode C, Buckwalter J, Carr A, Marsh L, Fairbank J, Wilson-MacDonald J, editors. Oxford textbook of orthopaedics and trauma . Oxford: Oxford University Press; 2011.
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
10.09.2025

Discipline Coordinator,
Lect. Anghelescu Dan

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

Course Coordinator,
Lect. Anghelescu Dan

Laboratory Coordinator,
Lect. Anghelescu 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	OTORHINOLARINGOLOGY (E.N.T.)				
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Mocanu Horia				
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Mocanu Horia				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc. Prof. Mocanu Horia				
Discipline Code	MLE.4.8.14	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
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	OTORHINOLARYNGOLOGY (ENT)
Specific professional competencies	C1 – Recognition of ENT pathology; C2 – Application of ENT examination techniques.
Transversal competencies	C5 – Patient communication; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Otorhinolaryngology (ENT). To develop understanding of clinical assessment and diagnostic reasoning relevant to Otorhinolaryngology (ENT). To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Otorhinolaryngology (ENT). To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Otorhinolaryngology (ENT).
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Otorhinolaryngology (ENT). Explain key mechanisms, diagnostic principles and professional standards relevant to Otorhinolaryngology (ENT). Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe anatomy and pathology of ear, nose and throat structures.
Skills	Perform ENT examination and interpret relevant diagnostic investigations.
Responsibilities/ Autonomy	Apply clinical knowledge responsibly in ENT patient evaluation.

Course Syllabus	Hours
Course #1. Otology: Anatomy, Physiology, and Otological Syndromes Anatomical and physiological overview of the external, middle, and inner ear. Classification and clinical presentation of otological syndromes. Congenital malformations of the outer and middle ear. Diagnosis and management of foreign bodies in the external auditory canal.	2

Course Syllabus	Hours
Course #2. Otology: Inflammatory and Parasitic Diseases of the External Ear and Otitis Media Clinical characteristics, diagnosis, and treatment of external ear infections including otitis externa. Parasitic infestations of the auricular canal. Inflammatory diseases of the middle ear, with focus on acute and chronic otitis media and their complications.	2
Course #3. Otology: Hearing Aids, Chronic Deafness, and Tumors Assessment and management of chronic hearing loss. Indications and fitting of hearing aids. Pathological conditions affecting the inner ear. Diagnosis and treatment of benign and malignant ear tumors.	2
Course #4. Rhinology: Clinical Anatomy, Physiology, and Nasal Malformations Functional anatomy and physiology of the nasal cavities and paranasal sinuses. Congenital nasal malformations and their clinical significance. Evaluation and treatment of nasal and facial sinus trauma. Management of nasal foreign bodies.	2
Course #5. Rhinology: Nasal Infections and Inflammatory Disorders Cutaneous infections involving the nasal region. Inflammatory conditions of the nasal mucosa, including rhinitis. Clinical forms, diagnosis, and treatment of acute and chronic sinusitis.	2
Course #6. Rhinology: Nasal Polyposis and Tumors Etiology, pathogenesis, and management of nasal polyposis. Classification, diagnosis, and therapeutic approaches to benign and malignant tumors of the nasal cavities and paranasal sinuses.	2
Course #7. Laryngology: Anatomy, Physiology, and Malformations of the Larynx Embryological development, anatomical structure, and functional physiology of the larynx. Clinical syndromes and congenital malformations. Diagnosis and management of laryngeal trauma and foreign body obstruction.	2
Course #8. Laryngology: Laryngitis and Motor Disorders of the Larynx Acute and chronic forms of laryngitis, both specific and nonspecific. Functional disorders including vocal cord paralysis and dysphonia. Diagnostic evaluation and therapeutic options.	2
Course #9. Laryngology: Laryngeal Tumors Classification, pathogenesis, and staging of benign and malignant tumors of the larynx. Diagnostic workup, surgical and non-surgical treatment modalities, and postoperative care.	2
Course #10. Pharyngology: Anatomy, Physiology, and Malformations of the Pharynx Anatomical and physiological basis of pharyngeal function. Clinical syndromes, congenital anomalies, traumatic injuries, and management of pharyngeal foreign bodies.	2
Course #11. Pharyngology: Angina and Inflammatory Disorders Etiology and clinical forms of acute and chronic angina. Specific and nonspecific infections of the pharyngeal mucosa. Principles of diagnosis and treatment.	2
Course #12. Pharyngology: Tumors of the Pharynx Classification, clinical features, and therapeutic strategies for pharyngeal tumors. Emphasis on early detection, diagnostic imaging, and surgical interventions.	2
Course #13. Tracheobronchial and Esophageal Pathology Anatomical and physiological features of the tracheobronchial tree and esophagus. Clinical presentation and diagnostic approach to upper airway and esophageal disorders. Indications for endoscopic and surgical intervention.	2
Course #14. Salivary Gland and Cervical Pathology Morphology and physiology of the salivary glands. Clinical evaluation and investigation of salivary secretion disorders, inflammation, lithiasis, and tumors. Congenital and acquired conditions of the cervical region, including trauma, infection, and neoplasia.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Examination in ENT Introduction to examination techniques in otorhinolaryngology. Types of light sources and their use in clinical settings. General principles of patient positioning and visualization of ENT structures.	2
Laboratory Work #2. Otology: Examination of the Auditory Analyzer Subjective evaluation of auditory function. Objective examination techniques including inspection, palpation, otoscopy, assessment of tympanic membrane mobility, auscultation of the ear, and salpingoscopy.	2
Laboratory Work #3. Otology: Functional Examination Application of clinical methods for evaluating auditory function, including tuning fork tests (acumetry), tonal and speech audiometry. Assessment of Eustachian tube patency using functional tests.	2
Laboratory Work #4. Otology: Laboratory Examinations Paraclinical investigations in otology including microbiological analysis, tympanometry, and otoacoustic emissions. Collection techniques and interpretation of findings in various otologic conditions.	2
Laboratory Work #5. Rhinology: Examination of the Nose and Paranasal Sinuses Clinical approach to subjective and objective examination of the nasal cavities and sinuses. Inspection, palpation, and endocavitary examination techniques used for diagnosis and assessment.	2
Laboratory Work #6. Rhinology: Functional and Laboratory Investigations Assessment of nasal airflow and olfactory function. Use of rhinomanometry and olfactometry. Special laboratory tests relevant to rhinological pathology.	2
Laboratory Work #7. Laryngology: Clinical Examination Subjective symptom analysis and objective evaluation through inspection, palpation, and endocavitary techniques. Identification of laryngeal anatomical structures and assessment of mobility.	2
Laboratory Work #8. Laryngology: Functional and Laboratory Investigations Voice assessment and laryngeal function tests. Laboratory methods including cytological and microbiological analysis. Use of video laryngostroboscopy in voice evaluation.	2
Laboratory Work #9. Pharyngology: Clinical Examination Subjective complaints and systematic clinical examination of the pharynx using inspection, palpation, and endocavitary techniques. Recognition of anatomical and pathological changes.	2
Laboratory Work #10. Pharyngology: Functional and Laboratory Investigations Functional assessment of deglutition and speech. Collection and interpretation of laboratory tests specific to pharyngeal pathology, including cultures and serologic markers.	2
Laboratory Work #11. Esophagology: Semiology and Clinical Evaluation Anatomical reference points and structured patient history in esophageal disorders. Objective examination and techniques for functional and structural exploration of the esophagus.	2
Laboratory Work #12. Tracheobronchology: ENT Evaluation of the Airway Clinical semiology of tracheobronchial pathology. Anatomical landmarks, history taking, and physical examination. Techniques of exploration including indirect and fiberoptic visualization.	2
Laboratory Work #13. Vestibular Pathology: Examination and Semiology Basic anatomy and physiology of the vestibular system. Subjective and objective signs of vestibular dysfunction. Application of provoked tests and examination techniques of the vestibular analyzer.	2

Laboratory Syllabus	Hours
Laboratory Work #14. Interpretation of Specific ENT Investigations Interpretation of specialized investigations including X-ray and CT of the paranasal sinuses, liminal tonal and speech audiograms, rhinomanometry, vestibular tests, and allergic skin tests. Clinical application and diagnostic value.	2

Minimum References:
1. Gleeson M, Browning GG, Burton MJ, Clarke R, Hibbert J, Jones NS, et al., editors. Scott-Brown's otorhinolaryngology and head and neck surgery . 8th ed. Boca Raton (FL): CRC Press; 2018.
2. Watkinson JC, Clarke RW, editors. Scott-Brown's essential otorhinolaryngology . 2nd ed. Boca Raton (FL): CRC Press; 2019.
3. Hibbert J, McQueen A, editors. Key topics in otolaryngology . 3rd ed. London: CRC Press; 2019.
4. Cummings CW, Flint PW, Haughey BH, Robbins KT, Thomas JR, Harker LA, et al., editors. Cummings otolaryngology: head and neck surgery . 7th ed. Philadelphia: 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

10.09.2025

**Discipline Coordinator,
Assoc.Prof. Mocanu Horia**

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

**Course Coordinator,
Assoc.Prof. Mocanu Horia**

**Laboratory Coordinator,
Assoc.Prof. Mocanu Horia**

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	DIABETES, NUTRITIONAL AND METABOLIC DISEASES				
Didactic position, name and surname of the Discipline Coordinator	Lect. Constantin Ciprian, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Constantin Ciprian, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Constantin Ciprian, MD, PhD				
Discipline Code	MLE.4.8.15	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	E8
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					7
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	3
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	DIABETES, NUTRITIONAL AND METABOLIC DISEASES
Specific professional competencies	C1 – Identification of metabolic disorders; C2 – Application of therapeutic strategies.
Transversal competencies	C4 – Analytical reasoning; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Diabetes, Nutritional and Metabolic Diseases. To develop understanding of clinical assessment and diagnostic reasoning relevant to Diabetes, Nutritional and Metabolic Diseases. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Diabetes, Nutritional and Metabolic Diseases. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Diabetes, Nutritional and Metabolic Diseases.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Diabetes, Nutritional and Metabolic Diseases. Explain key mechanisms, diagnostic principles and professional standards relevant to Diabetes, Nutritional and Metabolic Diseases. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe metabolic disorders and nutritional principles related to diabetes and metabolic diseases.
Skills	Interpret metabolic laboratory parameters and apply therapeutic strategies.
Responsibilities/ Autonomy	Integrate nutritional and metabolic evaluation into patient management.

Course Syllabus	Hours
Course #1. The Expansion of Diabetes and Its Complications Epidemiological trends in diabetes mellitus. Global and regional prevalence, incidence, and	1

Course Syllabus	Hours
public health impact. Overview of acute and chronic complications, including their burden on healthcare systems and individual prognosis.	
Course #2. Glucose Homeostasis Physiological mechanisms regulating blood glucose levels. Role of pancreatic hormones, hepatic glucose output, peripheral glucose uptake, and hormonal counter-regulation. Impairments in glucose homeostasis leading to prediabetic and diabetic states.	1
Course #3. Diabetes Mellitus: Definition, Diagnosis, and Classification Criteria for diagnosis of diabetes mellitus according to international guidelines. Classification of diabetes types based on etiology and clinical characteristics. Distinctions between type 1, type 2, gestational, and secondary forms.	1
Course #4. Physiology of Insulin Secretion Mechanisms of insulin synthesis, storage, and release by pancreatic β -cells. Regulatory factors including blood glucose, incretins, and neural input. Cellular signaling and feedback control of insulin secretion.	1
Course #5. Diabetes Mellitus: Etiopathogenesis and Clinical Forms Pathogenic mechanisms underlying type 1 and type 2 diabetes. Genetic, autoimmune, metabolic, and environmental contributors. Clinical distinctions between the major forms and their diagnostic implications.	1
Course #6. Gestational Diabetes Physiological changes in glucose metabolism during pregnancy. Risk factors, diagnostic criteria, and clinical course of gestational diabetes. Maternal and fetal complications, as well as postnatal follow-up strategies.	1
Course #7. Secondary Diabetes Overview of diabetes secondary to endocrine disorders, pancreatic diseases, medications, and genetic syndromes. Pathophysiological mechanisms and diagnostic approach. Principles of tailored management.	1
Course #8. Nonpharmacological Treatment of Diabetes Role of lifestyle interventions in the management of diabetes. Impact of physical activity, behavioral therapy, and patient education on glycemic control and long-term outcomes.	1
Course #9. Healthy Eating in Diabetes Nutritional principles applicable to diabetic patients. Macronutrient distribution, glycemic index, and calorie balance. Evidence-based dietary guidelines promoting metabolic control.	1
Course #10. Practical Recommendations on Diet in Diabetes Mellitus Individualized dietary planning for diabetic patients. Meal structuring, carbohydrate counting, and use of food exchanges. Adaptation of nutritional advice based on comorbidities and cultural preferences.	1
Course #11. Pharmacological Treatment of Diabetes Overview of oral and injectable antidiabetic agents. Mechanisms of action, indications, contraindications, and side effects. Strategies for individualized pharmacologic management.	1
Course #12. Insulin Therapy Types of insulin preparations and regimens. Indications for insulin therapy in type 1 and type 2 diabetes. Injection techniques, dose titration, and patient education for safe and effective use.	1
Course #13. Complications of Diabetes: Pathophysiology and Clinical Forms Mechanisms of microvascular and macrovascular complications. Clinical presentation and progression of diabetic retinopathy, nephropathy, neuropathy, and cardiovascular disease. Screening and prevention strategies.	1
Course #14. Metabolic Syndrome and Cardiovascular Risk Definition and diagnostic criteria of metabolic syndrome. Pathophysiological links between	1

Course Syllabus	Hours
insulin resistance, obesity, hypertension, dyslipidemia, and cardiovascular disease. Risk stratification and intervention strategies.	

Laboratory Syllabus	Hours
<p>Laboratory Work #1. Global Expansion and Impact of Diabetes Mellitus Analysis of epidemiological trends and contributing factors such as urbanization, globalization, and economic development. Review of global prevalence data and geographic distribution, including the top countries by diabetes prevalence. Discussion of healthcare system burdens due to cardiovascular comorbidities and chronic complications, with focus on working-age populations and developing nations.</p>	1
<p>Laboratory Work #2. Definition and Diagnostic Approach in Diabetes Mellitus Comparison between type 1 and type 2 diabetes in terms of etiology and pathophysiology. Educational tools for patient understanding of disease mechanisms. Population-based evidence on lifestyle influence in type 2 diabetes. Diagnostic evaluation of carbohydrate metabolism disorders and practical application of the Oral Glucose Tolerance Test.</p>	1
<p>Laboratory Work #3. Classification and Screening in Diabetes Mellitus Overview of diabetes classification. Identification of high-risk groups recommended for screening. Recognition of early clinical signs and symptoms. Discussion on public health approaches to early detection.</p>	1
<p>Laboratory Work #4. Insulin Secretion: Physiology and Pathophysiology Examination of normal insulin synthesis and release. Pathological changes in secretion across diabetes types. Overview of insulin's biological actions on metabolism and cellular function.</p>	1
<p>Laboratory Work #5. Type 1 Diabetes: Etiopathogenesis and Patient Communication Stages in the development of type 1 diabetes. Strategies for delivering new diagnoses and initiating therapeutic education. Clinical and emotional considerations for newly diagnosed individuals.</p>	1
<p>Laboratory Work #6. Type 2 Diabetes and Metabolic Syndrome Mechanisms underlying insulin resistance and β-cell dysfunction. Clinical identification of insulin resistance and abdominal obesity. Measurement techniques and pathogenic factors contributing to type 2 diabetes.</p>	1
<p>Laboratory Work #7. The Incretin Effect and GLP-1 Role of incretin hormones in glycemic regulation, with emphasis on GLP-1 physiology. Application of GLP-1 receptor agonists in type 2 diabetes treatment and metabolic control.</p>	1
<p>Laboratory Work #8. Secondary Diabetes: Etiologies and Clinical Presentation Endocrine and metabolic conditions leading to secondary diabetes, including Cushing's syndrome, acromegaly, Basedow's disease, and hemochromatosis. Clinical profiles and diagnostic approaches.</p>	1
<p>Laboratory Work #9. Dietary Management in Diabetes Nutritional principles tailored to diabetic patients. Liberalized diet approaches, obesity-related dietary interventions, and nutritional considerations in gestational diabetes. Personalization of dietary goals.</p>	1
<p>Laboratory Work #10. Individualized Dietary Planning Steps in constructing personalized meal plans. Use of formulas to determine ideal body weight, classification of carbohydrate sources by glycemic index, and distinction between fast and slow-acting carbohydrates.</p>	1

Laboratory Syllabus	Hours
Laboratory Work #11. Glycemic Monitoring and Insulin Therapy Techniques for glycemic self-monitoring and use of continuous glucose monitoring systems. Overview of insulin types and regimens. Training in insulin administration and pump therapy.	1
Laboratory Work #12. Non-Insulin Pharmacologic Treatment Mechanisms, indications, and side effects of oral and injectable antidiabetic agents including biguanides, sulfonylureas, thiazolidinediones, GLP-1 receptor agonists, alpha-glucosidase inhibitors, DPP-4 inhibitors, and SGLT2 inhibitors.	1
Laboratory Work #13. Acute Complications of Diabetes Mellitus Pathophysiology and clinical management of diabetic ketoacidosis and hypoglycemic coma. Diagnostic criteria and emergency treatment protocols. Preventive strategies in high-risk patients.	1
Laboratory Work #14. Chronic Complications of Diabetes Mellitus Microvascular complications including diabetic retinopathy and nephropathy, and macrovascular complications such as ischemic heart disease and cerebrovascular disease. Diagnostic tools, staging, and long-term management principles.	1

Minimum References:
1. Holt RIG, Cockram CS, Flyvbjerg A, Goldstein BJ, editors. Textbook of diabetes . 6th ed. Oxford: Wiley-Blackwell; 2023.
2. Wass JAH, Stewart PM, editors. Oxford textbook of endocrinology and diabetes . 3rd ed. Oxford: Oxford University Press; 2020.
3. Geissler C, Powers HJ, editors. Human nutrition . 14th ed. Oxford: Oxford University Press; 2023.
4. Saudubray JM, Baumgartner MR, Walter J, editors. Inborn metabolic diseases: diagnosis and treatment . 6th ed. Berlin: Springer; 2016.
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,
Lect. Constantin Ciprian**

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

**Course Coordinator,
Lect. Constantin Ciprian**

**Laboratory Coordinator,
Lect. Constantin Ciprian**

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 BIOCHEMISTRY				
Didactic position, name and surname of the Discipline Coordinator	Prof. Tănase Cristiana, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Prof. Tănase Cristiana, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.4.8.16	Formative category of the discipline		DS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	4

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 BIOCHEMISTRY
Specific professional competencies	C2 – Interpretation of biochemical investigations; C4 – Integration of laboratory data in diagnosis.
Transversal competencies	C4 – Scientific reasoning; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Clinical Biochemistry. To develop understanding of clinical assessment and diagnostic reasoning relevant to Clinical Biochemistry. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Clinical Biochemistry. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Clinical Biochemistry.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Clinical Biochemistry. Explain key mechanisms, diagnostic principles and professional standards relevant to Clinical Biochemistry. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain biochemical mechanisms underlying physiological and pathological processes.
Skills	Interpret biochemical laboratory results relevant to clinical diagnosis.
Responsibilities/ Autonomy	Apply biochemical knowledge responsibly in diagnostic evaluation.

Course Syllabus	Hours
Course #1. Introductory Notions of Clinical Biochemistry Foundations of clinical biochemistry as a discipline bridging laboratory analysis and medical diagnosis. Overview of biochemical processes relevant to human physiology and pathology. Role of biochemical markers in disease detection, monitoring, and prognosis.	1

Course Syllabus	Hours
Course #2. Plasma Enzymes (I) Classification, origin, and physiological roles of plasma enzymes. Mechanisms of enzyme release into circulation. Diagnostic relevance of enzyme activity levels in clinical practice.	1
Course #3. Plasma Enzymes (II) Enzyme kinetics and interpretation of specific enzyme patterns in disease. Clinical applications of enzymes such as AST, ALT, LDH, CK, and ALP. Sensitivity and specificity of enzyme-based diagnostics.	1
Course #4. Acute Phase Proteins (I) Physiological role of acute phase proteins in the inflammatory response. Mechanisms of hepatic synthesis regulation. Clinical interpretation of changes in protein concentration during acute and chronic conditions.	1
Course #5. Acute Phase Proteins (II) Classification of positive and negative acute phase proteins. Diagnostic relevance of CRP, fibrinogen, haptoglobin, and others. Use in monitoring infection, trauma, autoimmune diseases, and malignancies.	1
Course #6. Glucose Metabolism Regulation of glucose levels through hormonal control. Pathophysiological mechanisms of hyperglycemia and hypoglycemia. Biochemical pathways involved in glucose homeostasis and their clinical implications.	1
Course #7. Disruption of Liver Function: Biochemical Indicators Overview of liver function tests and their biochemical basis. Indicators of hepatocellular injury, cholestasis, and synthetic dysfunction. Interpretation of alterations in bilirubin, transaminases, albumin, and coagulation factors.	1
Course #8. Metabolic Syndrome and Type 2 Diabetes Biochemical abnormalities associated with metabolic syndrome, including insulin resistance, dyslipidemia, and glucose intolerance. Pathophysiological overlap with type 2 diabetes. Laboratory criteria and risk assessment tools.	1
Course #9. Metabolism of Alcohol in the Body Biochemical pathways involved in ethanol metabolism. Enzymatic activity of ADH and ALDH. Toxic effects of alcohol and its metabolites on liver and systemic metabolism.	1
Course #10. Trans and Polyunsaturated Fatty Acids Structural and functional characteristics of fatty acid subtypes. Metabolic and health implications of trans fats and polyunsaturated fatty acids. Role in cardiovascular risk and lipid profile modulation.	1
Course #11. Biochemical Markers in Cardiovascular Diseases Markers of myocardial injury, inflammation, and atherosclerotic risk. Diagnostic utility of troponins, CK-MB, BNP, and lipid profile components. Integration into clinical decision-making algorithms.	1
Course #12. Biochemistry of the Heart: Acute Coronary Syndrome Pathophysiology of myocardial ischemia and infarction. Biochemical timeline of cardiac marker elevation. Interpretation of serial measurements in acute coronary settings.	1
Course #13. Laboratory Tests for Investigating Liver Functions (I) Standard biochemical investigations used to assess hepatic integrity and function. Indications and interpretation of liver panel components. Sensitivity of markers in various hepatopathies.	1
Course #14. Laboratory Tests for Investigating Liver Functions (II) Expanded evaluation of liver pathology using advanced biochemical and enzymatic assays. Role of emerging biomarkers in early diagnosis and prognosis of liver disease.	1

Minimum References:

1. Marshall WJ, Lapsley M, Day AP, Ayling RM. **Clinical chemistry**. 9th ed. London: Elsevier; 2022.
2. Burtis CA, Bruns DE, editors. **Tietz fundamentals of clinical chemistry and molecular diagnostics**. 8th ed. St. Louis (MO): Elsevier; 2019.
3. Bishop ML, Fody EP, Schoeff LE. **Clinical chemistry: techniques, principles, correlations**. 9th ed. Philadelphia: Wolters Kluwer; 2018.
4. Rifai N, Horvath AR, Wittwer CT, editors. **Tietz textbook of clinical chemistry and molecular diagnostics**. 6th ed. St. Louis (MO): 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

- 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
15.09.2025

Discipline Coordinator,
Prof. Tănase Cristiana

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

Course Coordinator,
Prof. Tănase Cristiana

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	MEDICAL MANOEUVRES SKILLS (2ND MODULE)				
Didactic position, name and surname of the Discipline Coordinator	-				
Didactic position, name and surname for the Course Coordinator	-				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assist. Nicodin Mihnea, MD, PhD PhD.Candidate Dermengiu Teodora PhD. Candidate Zaides Maximilian				
Discipline Code	MLE.4.8.17	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	MEDICAL MANOEUVRES SKILLS (2ND MODULE)
Specific professional competencies	C3 – Execution of medical procedures; C2 – Application of clinical technical skills.
Transversal competencies	C5 – Team collaboration; C6 – Professional responsibility.
General objectives of the discipline	<p>To provide fundamental knowledge regarding the core scope of Medical manoeuvres skills (2nd module).</p> <p>To develop understanding of clinical assessment and diagnostic reasoning relevant to Medical manoeuvres skills (2nd module).</p> <p>To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Medical manoeuvres skills (2nd module).</p> <p>To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Medical manoeuvres skills (2nd module).</p>
Specific objectives of the discipline	<p>Identify common concepts, clinical presentations or practical situations addressed in Medical manoeuvres skills (2nd module).</p> <p>Explain key mechanisms, diagnostic principles and professional standards relevant to Medical manoeuvres skills (2nd module).</p> <p>Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable.</p> <p>Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision.</p> <p>Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.</p>

Learning Outcomes	
Knowledge	Describe principles and protocols of clinical procedures used in medical practice.
Skills	Perform clinical manoeuvres and procedural techniques safely under supervision.
Responsibilities/ Autonomy	Respect safety protocols and professional standards during clinical procedures.

Laboratory Syllabus	Hours
Laboratory Work #1. Interpretation of Laboratory Samples: Hematology Principles of analyzing hematological parameters including complete blood count, erythrocyte	2

Laboratory Syllabus	Hours
indices, leukocyte differentials, and coagulation profiles. Clinical implications of deviations and correlation with systemic diseases.	
Laboratory Work #2. Interpretation of Laboratory Samples: Renal and Bladder Function Evaluation of renal function through laboratory tests such as serum creatinine, urea, and electrolyte levels. Urinalysis interpretation and diagnostic clues for renal and urinary tract disorders.	2
Laboratory Work #3. Interpretation of Laboratory Samples: Acid-Base Balance Assessment of acid-base status using arterial blood gases. Interpretation of pH, pCO ₂ , HCO ₃ ⁻ , base excess, and anion gap. Identification of metabolic and respiratory acidosis/alkalosis and their compensatory mechanisms.	2
Laboratory Work #4. Gynecological Examination Technique Clinical steps and instrumentation for performing a gynecological examination. Anatomical landmarks, inspection, palpation, speculum use, and bimanual examination. Documentation and clinical interpretation.	2
Laboratory Work #5. Obstetrical Examination Technique Evaluation of the pregnant patient including Leopold maneuvers, fetal heart auscultation, uterine height measurement, and identification of fetal position and presentation. Integration of findings with gestational age and obstetric planning.	2
Laboratory Work #6. Examination of the Osteo-Articular Apparatus Systematic musculoskeletal evaluation through inspection, palpation, range of motion testing, and special maneuvers. Identification of inflammatory, degenerative, or traumatic pathologies.	2
Laboratory Work #7. Arthroscopy Technique and Clinical Interpretation Fundamentals of performing arthroscopy. Visualization of intra-articular structures, procedural indications, and interpretation of arthroscopic findings in relation to clinical pathology.	2
Laboratory Work #8. Chest X-Ray Technique and Interpretation Technical considerations in obtaining standard chest radiographs. Systematic approach to interpreting normal and pathological findings including pulmonary, mediastinal, pleural, and skeletal changes.	2
Laboratory Work #9. Articular X-Ray Technique and Interpretation Radiological assessment of major joints including shoulder, elbow, wrist, hip, knee, ankle, and foot. Standard views and positioning. Recognition of common pathological changes such as fractures, dislocations, and degenerative disease.	2
Laboratory Work #10. Interpretation of Computed Tomography (CT) Principles of CT imaging, contrast use, and anatomical planes. Identification of major pathological findings across systems. Clinical relevance and integration into diagnostic pathways.	2
Laboratory Work #11. Interpretation of Magnetic Resonance Imaging (MRI) MRI principles and sequences. Interpretation of soft tissue contrast and neurovascular structures. Common findings in neurological, musculoskeletal, and abdominal imaging.	2
Laboratory Work #12. Interpretation of Angiography Technique and applications of vascular imaging. Identification of arterial and venous abnormalities including stenosis, occlusion, aneurysms, and malformations. Clinical indications and decision-making.	2
Laboratory Work #13. Mini-Mental State Examination (MMSE) and Basic Psychological Tests Administration and scoring of the MMSE. Overview of commonly used psychological screening tools in clinical settings. Interpretation of cognitive and affective functioning.	2
Laboratory Work #14. Blood Group Determination and Antigen Typing Laboratory techniques for identifying blood group antigens including ABO, Rh, and minor blood	2

Laboratory Syllabus	Hours
group systems (M, L, etc.). Clinical applications in transfusion medicine, pregnancy, and organ transplantation.	

Minimum References:
1. Bickley LS. Bates' guide to physical examination and history taking. 13th ed. Philadelphia: Wolters Kluwer; 2020.
2. Talley NJ, O'Connor S. Clinical examination: a systematic guide to physical diagnosis. 8th ed. Chatswood (NSW): Elsevier; 2020.
3. Douglas G, Nicol F, Robertson C. Macleod's clinical examination. 15th ed. Edinburgh: Elsevier; 2020.
4. Ball JW, Dains JE, Flynn JA, Solomon BS, Stewart RW. Seidel's guide to physical examination. 9th ed. St. Louis: 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
•

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
10.09.2025**

**Discipline Coordinator,
-**

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

**Course Coordinator,
-**

**Laboratory Coordinator,
Assist. Nicodin Mihnea
PhD.Candidate Dermengiu Teodora
PhD. Candidate Zaides Maximilian**

**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	-				
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. Moldovan Alec Cosmin PhD.Candidate Iordache Marius				
Discipline Code	MLE.4.8.18	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	C3 – Development of practical clinical skills; C2 – Application of clinical knowledge.
Transversal competencies	C5 – Teamwork; C6 – Professional conduct.
General objectives of the discipline	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 principles, practical applications and patient-safety considerations in Yearly Medical Practice for acquiring medical skills and competences *. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Yearly Medical Practice for acquiring medical skills and competences *.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Yearly Medical Practice for acquiring medical skills and competences *. Explain key mechanisms, diagnostic principles and professional standards relevant to Yearly Medical Practice for acquiring medical skills and competences *. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe clinical workflow and patient management in healthcare settings.
Skills	Apply theoretical knowledge in clinical practice and participate in patient care.
Responsibilities/ Autonomy	Demonstrate professional responsibility and ethical behavior during clinical practice.

Laboratory Syllabus	Hours
<p>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.</p>	40
<p>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.</p>	40
<p>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.</p>	40
<p>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.</p>	40

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
15.09.2025

Discipline Coordinator,

-

Head of Department,
Ioan Sorin Tudorache, Assoc. Professor, M.D.,
PhD

Course Coordinator,

-

Laboratory Coordinator,
Assoc.Prof. Moldovan Alec Cosmin
PhD.Candidate Iordache Marius

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	-				
Didactic position, name and surname for the Course Coordinator	-				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lect. Romanescu Dragoş, MD, PhD				
Discipline Code	MLE.4.8.19	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	C3 – Development of procedural skills; C4 – Application of evidence-based practice.
Transversal competencies	C5 – Communication with healthcare team; C6 – Professional responsibility.
General objectives of the discipline	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 principles, practical applications and patient-safety considerations in Practical skills internship**. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Practical skills internship**.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Practical skills internship**. Explain key mechanisms, diagnostic principles and professional standards relevant to Practical skills internship**. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Understand protocols and procedures used in clinical practice.
Skills	Perform supervised clinical procedures and document patient care activities.
Responsibilities/ Autonomy	Demonstrate autonomy and responsibility in clinical training environments.

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 Syllabus	Hours
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 #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, Szilagy 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

- 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 throughout the semester	10 %
- Projects / Translations / Posters / Essays, etc.	-

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- 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
09.09.2025

Discipline Coordinator,

-

Head of Department,
Ioan Sorin Tudorache, Assoc. Professor, M.D.,
PhD

Course Coordinator,

-

Laboratory Coordinator,
Lect. Romanescu Dragos

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	THORACIC SURGERY					
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Ulmeanu Dan Ioan					
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Ulmeanu Dan Ioan					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.12	Formative category of the discipline		SS		
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8	
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	THORACIC SURGERY
Specific professional competencies	C1 – Recognition of thoracic pathology; C3 – Evaluation of surgical patients.
Transversal competencies	C5 – Teamwork in surgical practice; C6 – Professional responsibility.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Thoracic Surgery. To develop understanding of clinical assessment and diagnostic reasoning relevant to Thoracic Surgery. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Thoracic Surgery. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Thoracic Surgery.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Thoracic Surgery. Explain key mechanisms, diagnostic principles and professional standards relevant to Thoracic Surgery. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe thoracic anatomy, surgical pathology and principles of thoracic surgical treatment.
Skills	Evaluate thoracic surgical patients and interpret diagnostic imaging.
Responsibilities/ Autonomy	Participate responsibly in thoracic surgical evaluation under supervision.

Course Syllabus	Hours
Course #1. Introduction to Thoracic Surgery Definition and scope of thoracic surgery. Anatomical regions of interest (lungs, pleura, mediastinum, chest wall). Historical evolution and key figures. Preoperative evaluation and imaging. Role of thoracic surgery in multidisciplinary care.	2
Course #2. Surgical Approaches and Techniques	2

Course Syllabus	Hours
Overview of thoracotomy types and indications. Principles of video-assisted thoracoscopic surgery (VATS) and robotic techniques. Chest drainage systems. Instrumentation and intraoperative safety. Minimally invasive vs. open surgery.	
Course #3. Pulmonary Surgical Pathology Benign and malignant lung tumors. Surgical treatment of non-small cell lung cancer. Indications and techniques for segmentectomy, lobectomy, and pneumonectomy. Postoperative complications and long-term follow-up.	2
Course #4. Pleural Diseases with Surgical Indications Pleural effusion, empyema, spontaneous and traumatic pneumothorax. Surgical indications for pleurodesis, pleurectomy, and decortication. Mesothelioma management. Interpretation of pleural imaging and drainage protocols.	2
Course #5. Mediastinal and Chest Wall Surgery Surgical anatomy of the mediastinum. Treatment of mediastinal tumors and cysts. Hernias and congenital anomalies. Chest wall tumors and deformities. Principles of reconstruction and prosthetic materials.	2
Course #6. Thoracic Trauma and Emergency Surgery Classification and management of thoracic trauma. Rib fractures, flail chest, hemothorax, and lung contusions. Emergency thoracotomy. Vascular injuries. Post-trauma monitoring and ICU collaboration.	2
Course #7. Postoperative Management and Innovations Pain control, respiratory rehabilitation, and complication prevention. Long-term monitoring of thoracic surgery patients. Advances in robotic surgery and lung transplantation. Clinical case reviews and discussion of therapeutic strategies.	2

Minimum References:
1. Deterbeck FC, Rocco G, Ruffini E, editors. Textbook of thoracic surgery . 2nd ed. Oxford: Oxford University Press; 2022.
2. Batirel HF, Brunelli A, Rocco G, editors. European perspectives in thoracic surgery . Cham: Springer; 2020.
3. Patterson GA, Cooper JD, Deslauriers J, Lerut AEMR, Luketich JD, Rice TW, editors. Pearson's thoracic and esophageal surgery . 3rd ed. Edinburgh: Elsevier; 2019.
4. Ferguson MK. General thoracic surgery . 2nd ed. Cham: Springer; 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:

- 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

15.09.2025

**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	MEDICAL MALPRACTICE				
Didactic position, name and surname of the Discipline Coordinator	Lect. Mihălcescu Ana-Maria, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Mihălcescu Ana-Maria, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.13	Formative category of the discipline		DS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	MEDICAL MALPRACTICE
Specific professional competencies	C4 – Application of legal principles in medicine.
Transversal competencies	C5 – Professional communication; C6 – Ethical responsibility.
General objectives of the discipline	<p>To provide fundamental knowledge regarding the core scope of Medical Malpractice.</p> <p>To develop understanding of clinical assessment and diagnostic reasoning relevant to Medical Malpractice.</p> <p>To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Medical Malpractice.</p> <p>To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Medical Malpractice.</p>
Specific objectives of the discipline	<p>Identify common concepts, clinical presentations or practical situations addressed in Medical Malpractice.</p> <p>Explain key mechanisms, diagnostic principles and professional standards relevant to Medical Malpractice.</p> <p>Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable.</p> <p>Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision.</p> <p>Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.</p>

Learning Outcomes	
Knowledge	Describe legal and ethical principles governing medical practice and malpractice cases.
Skills	Analyze medico-legal cases and apply legal frameworks in medical practice.
Responsibilities/ Autonomy	Demonstrate responsibility in respecting medical legislation and ethical standards.

Course Syllabus	Hours
Course #1. Introduction to Medical Legislation Overview of the general legal framework governing medical practice in Romania and the European Union. Key legal concepts and institutional structures relevant to healthcare professionals.	1

Course Syllabus	Hours
Course #2. Conditions for Exercising the Medical Profession Legal requirements for medical practice in Romania and the EU. Processes for the mutual recognition of professional qualifications and the right of establishment for healthcare providers.	1
Course #3. The Doctor's Code of Ethics Core ethical principles guiding the medical profession. Rights and obligations of physicians in clinical, academic, and research settings. Professional behavior and ethical dilemmas.	1
Course #4. Organization of the Romanian College of Physicians Structure and legislative basis for the Romanian College of Physicians. Disciplinary proceedings and the procedural steps in cases of ethical and professional misconduct.	1
Course #5. Patient's Rights – Part I Overview of Romanian and European legislation protecting patient rights. Informed consent, confidentiality, access to medical information, and patient autonomy.	1
Course #6. Patient's Rights – Part II Continuation of legal protections and responsibilities related to patient care. Special considerations in vulnerable populations and legal recourse for rights violations.	1
Course #7. Organization of Healthcare Institutions Legislative framework for hospitals, clinics, and private medical practices in Romania. Role and structure of primary care services and the National Health Insurance House.	1
Course #8. Medical Malpractice – Definition and Procedure Definition of medical malpractice under Romanian law. Role of the Commission for Malpractice Cases and procedural steps for handling complaints and claims.	1
Course #9. Liability in Medical Malpractice Legal responsibilities of the physician and the healthcare institution in malpractice cases. Role of professional liability insurance and the insurer's obligations.	1
Course #10. Criminal and Civil Liability of Physicians Legal distinctions between criminal and civil liability in medical practice. Specificities of civil liability for healthcare professionals in the Romanian context.	1
Course #11. Bioethics and Human Rights Foundations of bioethics at national and international levels. Human rights considerations in medical decision-making. Bioethical implications in genetics and the historical context of eugenics.	1
Course #12. Bioethics of Transplantation and Reproductive Medicine Legal and ethical aspects of organ and tissue transplantation. Regulation of medically assisted human reproduction. Consent, allocation, and legal safeguards.	1
Course #13. Ethics in Psychiatry and Biomedical Research Ethical issues specific to psychiatric care. Protection of vulnerable patients. Ethical standards in biomedical research, including informed consent and research ethics committees.	1
Course #14. End-of-Life Ethics Legal and ethical considerations surrounding death and dying. Euthanasia, assisted suicide, and the withdrawal of life-sustaining treatment. Patient dignity and autonomy at the end of life.	1

Minimum References:
1. Montgomery J. Medical law in Europe . 2nd ed. Cambridge: Cambridge University Press; 2020.
2. McLean SAM. Medical law and ethics . 9th ed. Oxford: Oxford University Press; 2020.
3. Merry AF, McCall Smith A. Errors, medicine and the law . Cambridge: Cambridge University Press; 2001.

Minimum References:

4. Vincent C. **Patient safety**. 3rd ed. Hoboken (NJ): Wiley-Blackwell; 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
16.09.2025

**Discipline Coordinator,
Lect. Mihălcescu Ana-Maria**

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

**Course Coordinator,
Lect. Mihălcescu Ana-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	RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY					
Didactic position, name and surname of the Discipline Coordinator	Prof. Dorobanțu Lucian Florin, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Prof. Dorobanțu Lucian Florin, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.14	Formative category of the discipline		SS		
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8	
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	C2 – Application of cardiovascular technologies; C4 – Interpretation of technological data.
Transversal competencies	C4 – Scientific reasoning; C6 – Patient safety responsibility.
General objectives of the discipline	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 principles, practical applications and patient-safety considerations in Related technologies in Cardiovascular Surgery. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Related technologies in Cardiovascular Surgery.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Related technologies in Cardiovascular Surgery. Explain key mechanisms, diagnostic principles and professional standards relevant to Related technologies in Cardiovascular Surgery. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Explain technological innovations used in cardiovascular surgical procedures.
Skills	Interpret clinical applications of medical technologies used in cardiovascular surgery.
Responsibilities/ Autonomy	Apply safety standards when evaluating technological procedures.

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
•

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.

How the information is transmitted

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,
Prof. Dorobanțu Lucian Florin**

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

**Course Coordinator,
Prof. Dorobanțu Lucian Florin**

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	GENOMICS. MEDICAL INFORMATICS				
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.15	Formative category of the discipline		SS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	GENOMICS. CLINICAL BIOINFORMATICS
Specific professional competencies	C2 – Application of genomic technologies; C4 – Interpretation of bioinformatic data.
Transversal competencies	C4 – Analytical thinking; C6 – Ethical responsibility regarding genetic data.
General objectives of the discipline	To provide fundamental knowledge regarding the core scope of Genomics. Clinical Bioinformatics. To develop understanding of clinical assessment and diagnostic reasoning relevant to Genomics. Clinical Bioinformatics. To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Genomics. Clinical Bioinformatics. To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Genomics. Clinical Bioinformatics.
Specific objectives of the discipline	Identify common concepts, clinical presentations or practical situations addressed in Genomics. Clinical Bioinformatics. Explain key mechanisms, diagnostic principles and professional standards relevant to Genomics. Clinical Bioinformatics. Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable. Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision. Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.

Learning Outcomes	
Knowledge	Describe genomic technologies and bioinformatics tools used in medical diagnostics.
Skills	Analyze genomic data and interpret bioinformatic results relevant to clinical medicine.
Responsibilities/ Autonomy	Integrate genomic information responsibly in clinical decision processes.
Course Syllabus	
Course #1. Introduction to Genomics and Clinical Informatics Introduces the scope and role of genomics and clinical informatics in contemporary medicine, highlighting precision medicine, digital health, and data-driven clinical decision-making.	2

Course Syllabus	Hours
Course #2. Human Genome Structure, Regulation, and Genomic Variation Covers genome organization, gene expression regulation, epigenetics, and clinically relevant genomic variations associated with disease.	2
Course #3. Genomic Technologies and Bioinformatics Fundamentals Presents genomic testing methods, next-generation sequencing, and basic bioinformatic tools for data analysis and variant interpretation.	2
Course #4. Clinical Genomics and Pharmacogenomics Focuses on the clinical application of genomic data in diagnosis, prognosis, and individualized drug therapy, including adverse drug reaction prevention.	2
Course #5. Clinical Informatics Systems and Electronic Health Records Introduces hospital information systems, electronic health records, interoperability standards, and clinical data management.	2
Course #6. Clinical Decision Support, Big Data, and Artificial Intelligence Addresses clinical decision-support systems, predictive analytics, and the role of artificial intelligence in diagnosis and treatment planning.	2
Course #7. Ethical, Legal, and Translational Aspects of Genomics and Clinical Informatics Explores data protection, patient consent, ethical challenges, regulatory frameworks, translational research, and future directions in digital and genomic medicine.	2

Minimum References:
1. Turnpenny P, Ellard S, Cleaver R. Emery's elements of medical genetics and genomics . 16th ed. Edinburgh: Elsevier; 2022.
2. Ginsburg GS, Willard HF, editors. Genomic and precision medicine . 3rd ed. London: Academic Press; 2017.
3. Hoyt RE, Yoshihashi AK. Health informatics: practical guide for healthcare and information technology professionals . 8th ed. Chicago: AHIMA Press; 2020.
4. Shortliffe EH, Cimino JJ, editors. Biomedical informatics: computer applications in health care and biomedicine . 5th 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
•

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
09.09.2025**

**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
25.09.2025**



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	NUTRITION AND DIETETICS				
Didactic position, name and surname of the Discipline Coordinator	Lect. Constantin Ciprian, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lect. Constantin Ciprian, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.16	Formative category of the discipline		DS	
Year of Study	IV	Semester	8	Type of the final evaluation (E, V)	V8
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	NUTRITION AND DIETETICS
Specific professional competencies	C2 – Application of nutritional therapy; C3 – Patient evaluation.
Transversal competencies	C5 – Communication with patients; C6 – Professional responsibility.
General objectives of the discipline	<p>To provide fundamental knowledge regarding the core scope of Nutrition and Dietetics.</p> <p>To develop understanding of clinical assessment and diagnostic reasoning relevant to Nutrition and Dietetics.</p> <p>To familiarize students with evidence-based principles, practical applications and patient-safety considerations in Nutrition and Dietetics.</p> <p>To establish a foundation for supervised clinical practice, academic reasoning and interdisciplinary collaboration in Nutrition and Dietetics.</p>
Specific objectives of the discipline	<p>Identify common concepts, clinical presentations or practical situations addressed in Nutrition and Dietetics.</p> <p>Explain key mechanisms, diagnostic principles and professional standards relevant to Nutrition and Dietetics.</p> <p>Interpret essential clinical, laboratory, imaging, histopathological, epidemiological or technological data when applicable.</p> <p>Apply discipline-specific reasoning to formulate appropriate diagnostic, therapeutic, preventive or procedural approaches under supervision.</p> <p>Demonstrate responsible communication, documentation, teamwork and patient-safety awareness in academic and clinical contexts.</p>

Learning Outcomes	
Knowledge	Describe nutritional principles and their role in disease prevention and therapy.
Skills	Assess nutritional status and propose dietetic recommendations for patients.
Responsibilities/ Autonomy	Promote responsible dietary interventions for improving health outcomes.

Course Syllabus	Hours
Course #1. Notions of Endocrine Physiology – Recapitulation Review of endocrine system function with emphasis on hormonal regulation of metabolism. Overview of hypothalamic-pituitary-target gland axes and their relevance in nutritional and metabolic disorders.	1

Course Syllabus	Hours
Course #2. Hypothalamic Pathology: Diabetes Insipidus Pathophysiology, diagnosis, and management of central and nephrogenic diabetes insipidus. Clinical signs, water balance regulation, and implications for nutritional support.	1
Course #3. Pituitary Pathology and Tumors Classification of pituitary tumors into secreting and non-secreting forms. Clinical syndromes associated with pituitary dysfunction. Diagnostic approach and impact on metabolic status and nutritional needs.	1
Course #4. Pituitary Dwarfism and Acromegaly Growth hormone disorders and their nutritional implications. Clinical presentation, diagnostic criteria, and dietary considerations in growth delay and somatic overgrowth.	1
Course #5. Myxedema and Thyroid Hypofunction Clinical features of hypothyroidism and myxedema. Metabolic consequences and appropriate dietary modifications. Role of iodine and nutrient supplementation.	1
Course #6. Thyrotoxicosis and Hyperthyroidisms Pathophysiology and clinical presentation of Graves-Basedow disease and multinodular goiter. Nutritional consequences of increased metabolic rate and dietary recommendations for hyperthyroid patients.	1
Course #7. Thyroiditis and Thyroid Cancer Acute, subacute, and chronic inflammatory thyroid conditions. Nutritional impact of thyroid dysfunction. Overview of thyroid cancers and parathyroid pathology, including primary, secondary, and tertiary hyperparathyroidism.	1
Course #8. Adrenal Pathology Clinical features and nutritional implications of Addison's disease, pheochromocytoma, and Conn syndrome. Metabolic disturbances and dietary management in adrenal insufficiency and hyperfunction.	1
Course #9. Diabetes Mellitus and Hypoglycemia Pathophysiology of type 1 and type 2 diabetes and related hypoglycemic conditions. Nutritional principles in glycemic control and prevention of acute and chronic complications.	1
Course #10. Nutrition Guide Foundations of balanced nutrition and dietary recommendations for different physiological states. Macronutrient and micronutrient requirements in health and disease.	1
Course #11. General Notions of Dietetics Core concepts in dietetics including energy needs, food composition, and individualized dietary planning. Role of diet in disease prevention and health maintenance.	1
Course #12. Health Education in Diet and Disease Management Principles of patient education related to dietary therapy, treatment adherence, complication prevention, and early recognition of warning signs. Importance of regular medical follow-up.	1
Course #13. Diet – Specific Applications (I) Clinical application of dietetic principles in various endocrine and metabolic diseases. Dietary adjustments based on pathology, age, comorbidities, and treatment regimens.	1
Course #14. Diet – Specific Applications (II) Continuation of disease-specific dietary models. Case-based approaches to dietary planning and interdisciplinary collaboration in nutritional management.	1

Minimum References:

1. Geissler C, Powers HJ, editors. **Human nutrition**. 14th ed. Oxford: Oxford University Press; 2023.

Minimum References:
2. Mann J, Truswell AS. Essentials of human nutrition . 5th ed. Oxford: Oxford University Press; 2017.
3. Sobotka L, editor. Basics in clinical nutrition . 5th ed. Prague: Galén; 2019.
4. Lanham-New SA, Webb AR, Cashman KD, Buttriss JL, Fallowfield JL, Masud T, et al., editors. Nutrition and metabolism . 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
•

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,
Lect. Constantin Ciprian

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

Course Coordinator,
Lect. Constantin Ciprian

Laboratory Coordinator,
-

Department Approval Date
25.09.2025