



CD8.5.1 THE CURRICULUM OF THE DISCIPLINE

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FACULTY OF MEDICINE II

SYLLABUS 0914.2 RADIOLOGICAL TECHNOLOGY

THE FOREIGN LANGUAGES DEPARTMENT

APPROVED

at the meeting of the Commission for Quality Assurance and Curricular Evaluation of the Faculty of Medicine

Minutes No. 1 of 16.09.21

Committee Chairman, MD PhD., professor
Suman Serghei

APPROVED

at the meeting of the Faculty Council, Faculty of Medicine II

Minutes no. 1 of 21.09.2021

Dean of the Faculty,
MD PhD., associate professor
Bețiu Mircea

APPROVED

at the meeting of the Modern Languages Department

Minutes No. 2 of 15.09.2021

Head of Department, PhD in Pedagogy,
associate professor

Eșanu-Dumnazeu Daniela

CURRICULUM

MODERN LANGUAGES DEPARTMENT

Ist Cycle , License

Type of course: **Mandatory discipline**

Curriculum developed by the team of authors:

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Chișinău, 2020



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I. PRELIMINARIES

- **Overview of the discipline: the place and role of the discipline in the formation of the specific competences of the training program / specialty**

Modern language (English and French) is an essential discipline in the multilateral formation of medicine. In the process of intense globalization, modern language is an important pillar of integration. The possession of the modern language is a mandatory requirement, the study of which allows the creation of communication and acquisition skills of English, French and German medical terminology at the university stage. This facilitates compliance with international socio-professional and informational integration requirements. The systemic and notional approach of language contributes to achieving the expected performance.

- **Curriculum's mission (purpose) in vocational training**

The purposes of studying modern languages (French / English) and medical terminology:

- forming an active communicative competence in a foreign language for medical students;
- the thorough acquisition of medical terminology in foreign language;
- applying the competence of communication in foreign language in a francophone / anglophone hospital environment;
- active participation in international conferences and congresses;
- growing vocabulary of terminology;
- use of specialized information sources in French / English.

- **Language / languages of discipline:** English, French

- **Beneficiaries:** Students of the first year, Faculty of Medicine 1, RADIOLOGICAL TECHNOLOGY specialty.

II. DISCIPLINE ADMINISTRATION

The code of the discipline		G.01.O.006	
The name of the discipline		English/French	
Responsible (s) of discipline		University assistant L.Maxian University assistant V.Voloşciuc	
Year	I	Semester	I
Total hours, including:			60
Course		Practical / Laboratory Works	-
Practical works	30	Individual work	30

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Evaluation form	Colloquy	Number of credits	2
The code of the discipline	G.02.O.016		
The name of the discipline	English/French		
Responsible (s) of discipline	University assistant L.Maxian University assistant V.Voloşciuc		
Year	I	Semester	II
Total hours, including:			60
Course		Practical / Laboratory Works	-
Practical works	30	Individual work	30
Evaluation form	Examination	Number of credits	2

III. TRAINING OBJECTIVES WITHIN THE DISCIPLINE

At the end of study of discipline the student will be able:

- *at the level of knowledge and understanding:*

- to translate and explain notions and terms that refer to the discipline of radiological technology in a foreign language;
- to clarify principles, concepts, theories related to radiological technology
- to relate and illustrate events and processes in the field of radiological technology in a foreign language;
- to acquire terminology in the field of radiological technology in a foreign language.

- *at the level of application:*

- to define notions and processes in the field of radiological technology in a foreign language;
- apply the medical terms correctly (pronunciation and spelling);
- to demonstrate dexterities of training for medical terms in a foreign language and explain their meanings;
- to choose and implement the principles and procedures for training for medical terms in a foreign language;
- to choose and operate with the modalities and procedures for vocabulary enrichment;
- to correctly operate with various communication situations in the hospital environment;
- to communicate based on different situations with medical content;
- to apply the questions and answers for a medical interviewing correctly;
- to sketch medical documents correctly;
- to apply the abbreviations and symbols of medical terminology in a foreign language;
- to use the principle of medical conversation;



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- to explain the content of prospects of medicines in a foreign language;
- *at integration level:*
 - to create situations and action plans in the context of reference;
 - to develop a conception of the medical system in Moldova and the prospects for its development;
 - to participate in congresses, conferences, national and international seminars;
 - to understand the importance of studying medical terminology in foreign language and the impact of medical advances on the evolution of human life;
 - to determine the role of personality in promoting the model specialist in medicine.

IV. CONDITIONS AND PREREQUISITES

Fundamental knowledge of the foreign language.

V. THE THEME AND THE ORIENTATIVE DISTRIBUTION OF HOURS

Practical works / individual work. Ist Semester.

No.	TOPIC	The number of hours	
		Practical work	Individual work
1.	Radiology. Methods of examination.	2	3
2.	Human body.	2	3
3.	Skeleton.	2	3
4.	Methods of radiological examination. Computer Tomography (CT).	4	4
5.	Magnetic Resonance Imaging (MRI).	4	4
6.	Ultrasonography.	4	4
7.	Nuclear Medicine.	4	4
8.	Interventional Radiology.	4	3
9.	Revision.	2	2
10.	Final test.	2	
Total		30 hours	30 hours
		60 hours	



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Practical work/ individual work. Semester II.

No.	TOPIC	Number of hours	
		Practical work	Individual work
1.	Respiratory System. Methods of investigation.	4	4
2.	Cardiovascular System. Methods of investigation.	4	4
3.	Digestive System. Methods of investigation.	4	4
4.	Urinary System. Methods of investigation.	4	4
5.	Skeletal System. Methods of investigation.	4	4
6.	Nervous System. Head and neck.	4	4
7.	History taking. Goals of the history.	2	4
8.	Revision.	2	2
9.	Final test.	2	
Total		30 hours	30 hours
		60 hours	
Total		60 hours	60 hours
		120 hours	

VI. REFERENCE TARGETS AND CONTENT UNITS

Objectives	Unit content
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Objectives

Unit content

Theme (chapter) 1. Basics of radiological technology

- to define the fundamental concepts of radiological technology.
- to develop skills for analyzing and systematizing knowledge.
- To integrate knowledge of ethical considerations into everyday life
- *Grammatical objectives.* To explain the grammatical aspect through various exercises (complement, association, identification).

The origin of the term

The profession of radiologist assistant

Ethical considerations

Grammar. Article (I)

Video. Be a radiology assistant. (The significance of the radiologist's assistant)

Radiology- an art and a science

Theme (Chapter) 2. Anatomy.

- To paraphrase and explain the unknown vocabulary by using the dictionary.
- To clarify the overall meaning of the message in the text.
- To correctly interpret the message in the text through exercises, to replace unknown words by synonyms, antonyms identified in the dictionaries.
- To build based a plan of own ideas based on new vocabulary.
- *Grammatical objectives.* To apply and practice the correct or incorrect grammar structures through consolidation exercises.
- *Video.* To estimate the logical link between the written and video text sequences by questioning, group activities.

Skeleton.

Bones and extremities.

Grammar. Article (II)

Video. What is the Skeleton?

Human body. Body parts.

Grammar. The noun. The adjective. The adverb.

Video. Human body. Systems.

Theme (Chapter) 3. Examination methods.

- To analyze and exemplify the basic notions of the text.
- To render the main ideas and detail information of the text
- To compare and easily differentiate the types of radiological images.
- To read consciously, correctly, fluently and expressively the text.
- To apply explanatory and selective reading

Computerized tomography.

Methods of examination.

Material video. What is tomography?

Magnetic resonance imaging.

Grammar. Present tense.

Video materials. Introduction in Magnetic Resonance Imaging (MRI).



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Objectives

- exercises for understanding the essential and detailed information from the text.
- *Grammatical objectives.* To apply the correct grammatical structures through oral and written consolidation exercises.
- *Video materials.*
 - To enrich the vocabulary by discussing, explaining, oral paraphrasing and listening the viewed messages.
 - To retell the content of the video document viewed.

Unit content

Ultrasound.

Grammar. Continuous time.

Video materials. Ultrasound of the abdomen.

Nuclear medicine and interventional radiology.

Grammar. Perfect tenses (I).

Materiale video. Is Nuclear Medicine dangerous?

Theme (chapter) 4. Respiratory system.

- To choose from the studied text the explanatory elements and make a text analysis.
- To show interest and initiative for text reading.
- To explain and discuss the main ideas and detailed information from the text.
- *Grammatical objectives.* To practice correct or incorrect grammatical structures through various exercises.
- *Video materials.*
 - To implement video materials through group conversations, to ask questions and give answers regarding viewed sequences, etc.

Respiratory system. Methods of investigation..

Grammar. Perfect tenses (II).

Video materials. Types of pulmonary diseases.

Theme (chapter) 5. Cardiovascular system

- To apply and prepare oral expression with the vocabulary elements from the text by simulating communication situations, dialogues with colleagues.
- *Grammatical objectives.*
 - To practice the grammatical exercises complementing some elements with the knowledge of the learned communication content.
- *Video materials.*
 - to retell the content of the video viewed using exercises into indirect speech.
 - To identify information and main ideas from

Cardiovascular system. Methods of investigation.

Grammar. Past Tense (II).

Video materials. The heart and the vascular system.



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Objectives

video.

Unit content

Theme (chapter) 6. The digestive system.

- To manifest attention to the newly studied vocabulary and the essence of text read through exercises with pros and cons of given theme.
- *Grammatical objectives.*
 - To implement correct grammatical structures through a range of exercises.
- *Video materials.*
 - To identify the new vocabulary in the video by performing a range of exercises like gap filling, matching, files, debates.

Digestive system. Methods of investigation.
Grammar. Preposition (II)
Grammar. Relative pronoun (I).
Video materials. Digestive system. Anatomy.

Theme (Chapter) 7. The urinary system.

- To estimate the logical link of the context through exercises in order to establish the meaning of unknown words by reference to the context in which it appears and confrontation with the meaning / meanings offered by dictionaries.
- *Video materials.*
 - To correctly deduce the viewed video through stating questions for the referral to the logical relations.

The urinary system. Methods of investigation.
Grammar. Relative pronoun (II).
Video materials. Urinary System in 7 minutes.

Theme (chapter) 8. Skeletal system.



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Objectives

Unit content

- To correctly shape the message according to the conditions of communication through the development exercises of the communicative initiative and the courage to intervene in the act of communication.
- To integrate and use properly, in their own oral expression, the vocabulary elements in the text through the simulation exercises of communication situations.
- To demonstrate interest and initiative for reading various specialized texts.
- To consciously read, correctly, fluently and expressively the text studied.
- *Video materials.*
- To correctly analyze the video displayed by group conversations in which students ask questions and give answers to viewed video materials.

The skeletal system. Investigation methods.
Grammar. Modal verbs (I).
Video materials. Skeletal System. 3D.

Theme (Chapter) 9. The nervous system.



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Objectives	Unit content
<ul style="list-style-type: none">To consciously conclude the grammatical rules studied through the exercises recognition of the correct form of writing, selection, completing, composition of grammatical games for correction of mistakes, self-esteem, correction in pairs, etc.To make up a story of the medical text based on a simple plan of ideas through exercises with the help of the appropriate medical professional vocabulary.To propose exercises to transform a dialogue sequence in a story with the proper use of correct grammatical forms.	Nervous system. Head and neck. <i>Grammar.</i> Modal verbs (II). <i>Video materials.</i> Neuroscience: Nervous System.
Theme (Chapter) 10. Revision	
<ul style="list-style-type: none">To make up a story based on a simple plan of ideas using the appropriate medical professional vocabulary. To propose exercises to transform a dialogue sequence in the story with the proper use of correct grammatical forms.	Revision
Theme (Chapter) 11. Final Test.	
<ul style="list-style-type: none">To show interest, responsibility and critical spirit toward the material studied.	Final test

VII. PROFESSIONAL (SPECIFIC (SC) AND TRANSVERSAL (TC)) SKILLS AND LEARNING OUTCOMES

✓ Professional skills (specific) (PS)

- PS2. To develop a presentation or description by highlighting the important points and details relevant to the professional field.
- PS6. To render clear medical texts, making synthesis and evaluation of data and arguments retrieved from different sources.
- PS7. To understand the main ideas of complex interventions in terms of fund and form, regarding a concrete or abstract subject and in a standard language, including discussions related to their professional field.



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✓ Transversal skills (TS)

- TS1. Students will be able to watch carefully a video of a certain duration and a complex argument provided that the subject is quite familiar and that the overall exposure plan is shown by explicit indicators.
- TS2. Students will be able to get information, ideas and opinions from very specific sources of radiological technology.
- TS3. Students will be able to use the foreign language in a wide range of general, educational, professional subjects.
- TS4. Students will be able to communicate in a foreign language using notions and terms in the field of radiological technology.

✓ Learning Outcomes

Upon completion of the course the student will be able:

- To know and define professional terminology in the field of radiological technology.
- To assess and practice optimal qualities and behaviour for the successful profession of the related domain.
- To easily identify and define radiological examination procedures.
- To use correct and effective English in a wide range of general, educational, professional subjects.
- To apply the methods studied in professional activity and in everyday life.

Note. Discipline finality (are deduced from professional competencies and formative valences of the information content of the discipline).

STUDENT'S INDIVIDUAL WORK

No.	The expected product	Strategies	Evaluation criteria	Deadline
1.	Document video: Be a radiology assistant.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
2.	Document video: What is the Skeleton?	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
3.	Document video. Human body.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
4.	Document video. What is tomography?	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
5.	Document video.	To watch the video document and accomplish the tasks	Oral comprehension Oral and written expression	Throughout the year



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	Introduction in Magnetic Resonance Imaging(MRI).	from the pedagogical worksheet.		
6.	Document video Ultrasound of the abdomen.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
7.	Document video. Is Nuclear Medicine dangerous?	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
8.	Document video. Types of pulmonary diseases.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
9.	Document video. The heart and the vascular system.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
10.	Document video. Digestive system. Anatomy.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
11.	Document video. Urinary System in 7 minutes.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
12.	Document video. Skeletal System. 3D.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
13.	Document video. Neuroscience: Nervous System.	To watch the video document and accomplish the tasks from the pedagogical worksheet.	Oral comprehension Oral and written expression	Throughout the year
14.	Studying the specialized literature	Reading the specialized literature. Presenting an article.	Oral comprehension Oral and written expression	Throughout the year
15.	Visiting the Chair of Radiology and Imaging.	To get familiar with medical staff of the Radiology and Imaging Units, medical equipment and medical investigation methods.		Throughout the year



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16.	Project: <i>Technological Radiology - a new branch in the Republic of Moldova.</i>	To present the information about the studied field	Oral expression Correctness Fluency Teaching support	Throughout the year
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VIII. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-EVALUATION

Used methods of teaching and learning

Exposure, conversation, exercise, demonstration, questioning, heuristic conversation, brainstorming; experiment.

- Interactive methods with emphasis on the pragmatic aspect of Creative Communication and Exploration (brainstorming, free associations, starburst, value line, SINELG, T chart, cube, Venn diagram, cinquain);

✓ *Applied teaching strategies / techniques*

- *inductive strategies* (from particular to general) ;
- *deductive strategies* (from general to particular);
- *transductive strategies*;
- *heuristic strategies* - problem-solving, discovery, modelling, hypothesis formulation, heuristic dialogue, investigative experiment, brainstorming, creativity stimulation.
- *Evaluation methods* (including indicating how to calculate the final grade)

Current:

Frontal control or / and individually by:

- application of tests
- problem solving / exercising,
- analysis of case studies
- role plays on discussed subjects;
- the project (method of summative assessment);
- portfolio (longitudinal assessment method)

Final: Sem. I – Annual average - 100%

Sem II – Annual average - 50%, Multiple choice test - 20%, Exam - 30%.

Sem. IV- Annual average - 50%, Multiple choice test - 20%, Exam - 30%.

Method of mark rounding

Intermediate grades grid (annual average, grades at the exam stages)	National notation system	Equivalent ECTS
1,00-3,00	2	F
3,01-4,99	4	FX
5,00	5	E
5,01-5,50	5,5	

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5,51-6,0	6	
6,01-6,50	6,5	D
6,51-7,00	7	
7,01-7,50	7,5	C
7,51-8,00	8	
8,01-8,50	8,5	B
8,51-9,00	9	
9,01-9,50	9,5	A
9,51-10,0	10	

Annual average grade and grades of all final examination stages (assisted on a computer, testing, oral answer) - all will be expressed in numbers according to scoring scale (according to the table), and the final grade obtained will be expressed in two decimals, which will be passed in the gradebook.

The absence at the examination without reasonable reasons is recorded as "absent" and is equivalent to the 0 (zero) rating. The student can retake the exam twice if not passing.

RECOMMENDED BIBLIOGRAPHY:**A. Compulsory:**

1. Suport de curs la limba engleză pentru studenții de la Tehnologia radiologică (în curs de editare) ,
Autor : Liuba Maxian, 2021.

B. Supplementary:

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- 1.Dr. Tony Smith London, Dorling Kindersley. *The human body an illustrated guide to its structure, function and disorders.*
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- 4.Stewart C. Bushong. *Radiologic science for Radiology Assistant.*

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- <https://www.radiologyassistant.nl>
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