



DISCIPLINE SHEET

1. Program data

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE/ DEPARTMENT 8 RADIOLOGY, ONCOLOGY, HEMATOLOGY
1.3.	ONCOLOGICAL RADIOTHERAPY, MEDICAL IMAGING DISCIPLINE – COLTEA CLINICAL HOSPITAL
1.4.	FIELD OF STUDIES: Health - Sectorally regulated within the European Union
1.5.	COURSE OF STUDIES: BACHELOR'S DEGREE
1.6.	STUDY PROGRAM: MEDICINE

2. Discipline data

2.1.	Name of the optional subject within the discipline: Research in medical and radiological oncology						
2.2.	Location of the discipline: Coltea Clinical Hospital						
2.3.	Holder of course activities : Assoc. Prof. (hab.) Nicolae Verga, Asist. Prof. Andreea Iuliana Miron						
2.4.	The holder of Lp activities / clinical internship -						
2.5. Year of study	III	2.6. semester	II	2.7. The type of assessment	written exam	2.8. Discipline regimen	optional

3. Estimated total time (hours/semester of didactic activity) – modular education

No. hours per week	2	of which: course	2	Clinical internship	-
Total hours from the curriculum	14	Of which: course	14	Clinical internship	-
Distribution of the time fund	1 course/ week 2 hours/ week				hours
Study according to the textbook, course support, bibliography and notes					
Additional documentation in the library, on specialized electronic platforms and in the field					
Preparation of seminars / laboratories, assignments, reports, portfolio and essays					
Mentoring					
EXAMINATION					1 exam
Other activities					
Total hours of individual study					
Number of credits		2 EMC credits			

4. Prerequisites (where applicable)

4.1. of curriculum	anatomy, physiology, physiopathology, biophysics, biochemistry
4.2. of skills	-

5. Conditions (where applicable)

5.1. of the course	Amphitheater of Coltea Clinical Hospital
5.2. of carrying out the clinical internship	-

6. Accumulated specific skills

Professional competences (expressed by knowledge and skills) _	At the end of the course, the student must be able to: <ul style="list-style-type: none"> - He understands majors benefits of medical research in general and medical and radiological oncology research in particular - To be able to define and to delineate the goal and the subject of a research and formulate the correctly clinical question
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	<ul style="list-style-type: none"> - To be able to make up the essence systematic and based on it to be able to specify the stages , phases research , research planning methods _ _ - Be able to establish procedures to assist him in tracking and recording and validating results, as well as partial validation and the degree of achievement of the final result objectives
skills (role, professional development, personal)	<p>At the end of the course, the student should be able to:</p> <ul style="list-style-type: none"> - Gain a broader understanding of the necessary thinking methods , be able to make or discover useful analogies , models and modeling , simulation methods , etc _ to own notions of invention .

7. The objectives of the discipline (resulting from the grid of specific skills accumulated)

5.1. The overall objective	Familiarizing the student with the importance of research work in medical and radiological oncology, with his orientation in the issue of a given research plan or a subject he must research, issues related to ethics, legal regulations, the necessary economic, instrumental and human resources , managing a research plan.
5.2. Specific objectives	<p>Accustoming of the student with</p> <ul style="list-style-type: none"> - the types of research it can use; - MeSH , the review systematic ; - Models to follows and modeling, simulation , notions of inventics; - notions related to the registration , validation, presentation and protection of the results of his research , - forecasting the impact generated by his research activity

8. The content

8.1. course	teaching methods	Remarks
Course 1. Medical and radiological oncology research , definition , delimitation , classification , notions and specific expressions . Major benefits of medical research . National and international organizations , specific journals .	course	2 hours
Course 2. Ethical , legal, administrative, economic and management problems of medical and radiological oncology research .	course	2 hours
Course 3. Definition and delimitation of the research subject , MeSH , research purpose , clinical question _ the current state of knowledge of this subject , the systematically review , the target group of end users .	course	2 hours
Course 4. Defining , creating and classifying the research tools used , useful analogies , models and modeling , simulation , notions of inventions .	course	2 hours
Course 5. Scientific medical translation research , clinical studies , internships : research phases , research planning methods .	course	2 hours

Course 6. Tracking , recording and validating the partial results of the research steps , integration for the final synthesis ; validation and degree of achievement of the objectives of the final result . Secondary results and their use for the design of other medical and radiological oncology research .	course	2 hours
Course 7. The results and impact of medical research ; their presentation and protection methods . Special situations : negative research , plagiarism and theft of results , etc..	course	2 hours
8.2. Clinical internship	teaching methods	Remarks
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Course selective bibliography 1. https://legislatie.just.ro/Public/DetailsDocument/35472 2. https://hmn.wiki.ro/Medical_research 3. https://www.medichub.ro/reviste/medic-ro/selectionof-bibliographic-sources-in-theactivity-of-medical-research-id-1139-cmsid-51 4. https://www.cdt-babes.ro/event-medical-victor-babes/research-medicala-translatiionala.php 5. https://ro.wikipedia.org/wiki/Clinical_study		

9. Corroboration of the contents of the discipline with the expectations representatives the epistemic community , professional associations and representative employers from the field related to the program

Appropriate training of the student at the end of the course ensures a correct approach to the issue of medical research radiological oncology and medicine in general . The course is adapted to the needs research activity both in the countries where the students come from and in any other research center abroad and from Romania. Since the University of Medicine and Pharmacy ``Carol Davila" is a university recognized in the world for its research activity, this course also reflects the position Our universities in the national and international scientific rankings. Professional national or international organizations, companies specialized in research or other universities will be able to find that our students or graduates already have an education that allows them to correctly and fully value their skills for research.

10. evaluation

Type of activity	Evaluation criterias	Evaluation methods	Weight of the final grade
course	written exam	written exam	100%
Clinical internship	-	-	-
performance standard			
<ul style="list-style-type: none"> the minimum passing grade is 5 (five) 			

Date of completion:
19.09.2023

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Date of approval in the
Department Council:

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Signature of the department director