

FIȘA DISCIPLINEI

1. Program data

1.1 Higher education institution	UNIVERSITY OF MEDICINE AND PHARMACY "VICTOR BABES" TIMISOARA
1.2 Faculty	FACULTY OF MEDICINE
1.3 Department	III
1.4 Domain of studies..... ¹⁾	License
1.5 Study cycle ²⁾	License
1.6 Study Program / Qualification	Medicine

2. Discipline data

2.1. Name of the discipline	Environmental medicine and ecology							
2.2 The discipline holder	Conf. Tatu Calin Adrian							
2.3 The seminary holder								
2.4 Year of study	II	2.5 Semester	II	2.6 Type of evaluation	Colloquy	2.7 Discipline status	Content ³⁾	DS
							Obligativity ³⁾	DOP

3. Total estimated time (hours per semester of teaching activities)

3.1 Hours per week	2	3.2 of which: course	2	3.3 laboratory	2
3.4 Total hours of the curriculum	56 (ore/sem)	3.5 of which: course	28	3.6 laboratory	28
Distribution of Time Fund					hours
Study after manual, course support, bibliography and notes					10
Additional documentation in the library, on specialized electronic platforms and on terrestrial platforms					
Training seminars / laboratories / projects, themes, papers, portfolios and essays					7
Tutorial					
Exams (1 final exam)					2
A. Other activities					
3.7 Total hours of individual study	17				
3.8 Total hours per semester	75 (2 credit x 25 ore/credit)				
3.9 Number of credits ⁵⁾	3				

4. Preconditions (where applicable):

4.1 curriculum	-
4.2 skills	-

5. Conditions (where applicable)

5.1 course	<ul style="list-style-type: none"> Mobile phones will be closed during classes, telephone conversations are not tolerated during the course, nor do students leave the classroom for personal phone calls; It will not be tolerated the delay of students at the course as it proves to be disruptive to the educational process; The attendance at the course is mandatory, with a maximum of 30% of the total absences being accepted.
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6. Specific skills accumulated

Professional competences	<ol style="list-style-type: none"> 1. Familiarize with the main terms and concepts of environmental medicine that can then be used correctly in related disciplines: hygiene, epidemiology, toxicology, occupational medicine, social medicine. Cunoasterea tuturor formelor de poluare si repercursiunile acestora asupra individului. 2. Critical analysis of various hypotheses that support the explanation of phenomena, presenting the experimental models that give arguments in favor or against a certain hypothesis taken into consideration. 3. The importance of knowing the noxes, toxins, environmental factors that can influence the health of the healthy and / or sick individual;
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Competențe transversal	<ol style="list-style-type: none"> 1. Preoccupation for professional development by engaging critical thinking skills demonstrated through active participation in the course and laboratory / seminar / project; 2. Involvement in scientific research activities by participating in the elaboration of papers, studies, specialized articles; 3. Effective use of information sources, communication resources and assisted training (Internet portals, specialized software applications, databases, on-line courses, etc.) both in Romanian and in an international languages;
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7. Objectives of the discipline (based on the specific competences accumulated)

7.1 The general objective of the discipline	This course refers to all toxins and environmental factors that have a direct and / or indirect action, alone or / and in combination, on human and to prevention measures. There are mentioned different impacts of environmental factors on healthy people and patients after exposure to the same environmental factor.
7.2 Specific Objectives	<ul style="list-style-type: none"> - Knowledge of the definition and object of study of environmental medicine and ecology; - Knowledge of all forms of pollution and their repercussions on the human body; - The importance of prevention of communicable diseases through air, water, soil, contaminated food; - The importance of knowing the noxes, toxins, environmental factors that can influence the health; - Interrelations between environmental medicine and ecology and other disciplines: hygiene, epidemiology, toxicology, occupational medicine, social medicine

8. Content:

8.1 Curse	Teaching methods	Hours	Remarks
1 Background of environmental medicine. Environmental crisis in human history.	INTERACTIVE LECTURE	4	<ul style="list-style-type: none"> • Oral lectures are delivered in a dynamic and engaging format, supported by well-structured and interactive PowerPoint presentations enriched with relevant, high-impact visuals. The content is continuously updated and expanded with the latest breakthroughs and findings relevant to the specialization. • Each session begins with clearly defined educational objectives and concludes with a concise summary of the key concepts covered, reinforcing the most important takeaways.
2. The impact of air pollution on human health		4	
3. Drinking water contamination and health risks		4	
4. Risks of food contaminants and additives: potential impacts on human health		4	
5. The effects of pesticides on ecosystems and public health: the role of endocrine disruptors		4	
6. Health risks associated with climate change		4	
7. Importance of environmental medicine in the prevention of chronic diseases. Risky behaviors: tobacco, alcohol, drugs.		4	

References :

- 1 Clinical Environmental Medicine: Identification and Natural Treatment of Diseases Caused by Common Pollutants by Walter J. Crinnion și Joseph E. Pizzorno ND., 2018
2. Current Diagnosis & Treatment Occupational & Environmental Medicine, 6th Edition (Current Occupational and Environmental Medicine) de Joseph LaDou și Robert Harrison, 2021

8.2 Seminar/ laboratory / traineeship / project	Teaching and learning methods	Hours	Remarks
Monitor key toxic substances in the air – design and implement a monitoring project focused on a specific air pollutant.	Ready to be interactive and use the Windy app	28	This seminar will focus on the methodologies and analytical instruments employed for the medium-term detection and surveillance of potentially hazardous substances. A particular emphasis will be placed on project-based learning to evaluate their impact on public health.

9. Corroborating the contents of the discipline with the expectations of representatives of the epistemic communities, professional associations and representative employers in the field of the program

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10. Rating

Activity type	10.1 Evaluation criteria	10.2 Methods of assessment	10.3 Weight of the final grade
10.4 Curs	Complexity and structure of the project.	Final evaluation: Project complexity and structure. Active student engagement during class hours	40% 10%
10.5 Practical work	Create a tracking graph showing the evolution of an environmental parameter	Creating a customized chart for an atmospheric pollutant.	50%
<p>10.6 Minimum performance standard:</p> <ul style="list-style-type: none"> • Obtaining basic knowledge of environmental medicine • Acquiring adequate medical language 			

Date of completion	Signature of course holder: Conf. Univ. Dr Tatu Calin Adrian	Signature of lab holder / trainee: SL. Dr. Ivan Alexandra
Signature of the Head of Discipline: Conf. Univ. Dr Tatu Calin Adrian		
Date of approval in the department :	Signature of Department Director: Prof. Univ. Dr. Paunescu Virgil	

Notă:

- 1) Domeniul de studii - *se alege una din variantele:* Licență/ Masterat/ Doctorat (**se completează conform cu Nomenclatorul domeniilor și al specializărilor/ programelor de studii universitare în vigoare**) ;
- 2) Ciclul de studii - *se alege una din variantele:* Licență/ Master/ Doctorat;
- 3) Regimul disciplinei (conținut) - *se alege una din variantele:* **DF** (disciplină fundamentală)/ **DD** (disciplină din domeniu)/ **DS** (disciplină de specialitate)/ **DC** (disciplină complementară) - *pentru nivelul de licență*; **DAP** (disciplină de aprofundare)/ **DSI** (disciplină de sinteză)/ **DCA** (disciplină de cunoaștere avansată) - *pentru nivelul de masterat*;

- 4) Regimul disciplinei (obligativitate) - *se alege una din variantele:***DI** (disciplină obligatorie)/ **DO** (disciplină opțională)/ **DFac** (disciplină facultativă);
- 5) Un credit este echivalent cu 25 – 30 de ore de studiu (activități didactice și studiu individual).
- 6) Pentru specializările și/sau disciplinele a căror tematică se regăsește în bibliografia de rezidențiat, aceasta devine obligatorie.