## **DISCIPLINE SHEET** ACADEMIC YEAR 2022 - 2023

#### **1. DATA ABOUT THE STUDY PROGRAM**

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY OF CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	5
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program/ Qualification	MEDICINE

### 2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME			HYGIENE				
2.2. Discipline code		MED 4109					
2.3 The holder of course activities			Prejbeanu Ileana/Radu Lucrețiu				
2.4 The holder of seminar activities Prejbea			Prejt	Prejbeanu Ileana /Mihai Marcelina			
2.5. Academic degree		Profe	Professor/Associate Professor/Assistant				
2.6. Employment (base norm/associate)		Base norm					
2.7. Year of study	IV	2.8. Semester	I	[	<ul><li>2.9. Course type (content)</li><li>2.10. Regime of discipline (compulsoriness)</li></ul>	CDD	

#### **3. TOTAL ESTIMATED TIME (teaching hours per semester)**

3.1 Number of hours per week		3.2 From witch - course	2	3.3 seminary/laboratory	2
3.4 Total hours in curriculum	56	3.5 From witch - course	28	3.6 seminary/laboratory	28
Time found distribution (hours)					
Study by manual, course support, bibliography, and notes 1					
Additional documentation in the library, specialized electronic platforms and, on the field					11
Training seminars / labs, homework, reports, portfolios, and essays					11
Tutoring					2
Examinations					4
Other activities, counselling, student circles					5
3.7 Total hours of individual study	44				
3.9 Total hours per semester 100					

#### 4. **PREREOUISITES** (where appropriate)

3.10 Number of credits

PROFESSIONAL

4.1 curriculum	biochemistry, microbiology, virology and parasitology knowledge
4.2 competency	-
5. CONDITIONS (where app	propriate)

5.1. of curse deployment	Lecture Hall with projector/online
5.2. of seminary/ lab	Hygiene Lab/online
deployment	

#### 6. SPECIFIC COMPETENCES ACCRUED

C1 – identifying the state of ill-health and accurately diagnosing the conditions

4

COMPETENCES C3 – assessing correctly the risk of disease or the context of occurrence of an individual/collective disease, followed by the selection and implementation of adequate prophylactic measures

C4 – approaching of health/ill-health issues from the point of view of the characteristics of the community, in direct relation with the social, economic and/or cultural conditions of the respective community

C5 – initiating and performing scientific research and/or training activity in the respective domain of competence

	CT1– auton	omy and responsibility:
S	-	achievement of a moral behaviour, of professional and civic attitudes such as correctitude, honesty,
C	tolerance, u	nderstanding of sufferance, availability in helping other people, interest in developing the community;
B	•	knowing and respecting moral valuables and professional ethics;
	•	identifying new issues and finding solutions to solve them.
E	CT2 – socia	l interaction:
N	•	respect of diversity and multicultural environments;
Ŭ	•	development of teamwork skills (communication, consulting, evaluation, etc);
T	•	expressing tasks, working conditions, results;
S	•	involvement in voluntary activities, in order to solve essential issues of the community.
ER	CT3 – perso	onal and professional development:
N.	•	agreement of a life-long learning behaviour;
Ž	•	permanent desire of self-perfection;
RA	•	becoming aware that individual study is the base of autonomy and professional development;
H	•	optimal and creative put into evidence of his/her own potential in collective activities;
	•	use of information and communication technology.

the grid of specific competences acquired)			
To understand the influence of the environment on the human health, in order to prevent diseases, to control environmental risks, to reduce the population exposure to environmental risk factors through community concentrated efforts and through efficient use of resources.			
After studying the discipline, the students will have the following cognitive			
abilities, practical skills and attitudes:			
<b>1. cognitive abilities</b> , which will allow them:			
- to describe the structure and properties of environmental factors, an, water, soil food:			
soil, 1000, to define pollution contamination infestation and radioactive			
contamination of environmental factors:			
• to identify pollution and contamination sources and factors of air water			
soil food:			
• to identify the effects generated by the environmental risks on human			
health;			
• to list the specific functions of nutrients in the human nutrition;			
<ul> <li>to evaluate nutritive and energetic value of food;</li> </ul>			
• to describe the particularities of the development periods of children and			
teenagers;			
• to identify the prophylactic measures needed to maintain environmental			
health and, thus, human communities' health.			
2. practical skills, which will allow them:			
• to organise the lab: to form a team, to distribute tasks, to collaborate, to			
communicate the requirements, to prepare the materials, to follow the protocol,			
to register and communicate the results, to discuss them with the team;			
• to use the specific materials and devices;			
• to analyse the quality of the environmental factors (air, water, soil, food) by comparing the values of physical chemical or microhiological parameters with			
the accented limits according to the present regulations:			
to examine food from the organolentic point of view.			
• to establish an individual diagnosis for the physical and psychic			
development of children.			
<b>3. attitudes</b> , consisting in:			
<ul> <li>knowledge and respect of the moral valuables and professional ethic;</li> </ul>			
• correctitude, honesty, tolerance, availability in helping other people,			
interest in developing the community;			
<ul> <li>identifying a new issue and finding solutions to solve it;</li> </ul>			
<ul> <li>development of teamwork skills;</li> </ul>			
• agreement of a life-long learning behaviour, permanent desire of self-			

## 8. CONTENTS

8.1 Course (content units)	Hours	
1. Air hygiene: chemical composition and its influence on the human body; air pollution and its direct and indirect	5	
actions on the human body; air contamination.	5	
2. Water hygiene: individual and community water needs; sources of water; water pathogenic potentialities;		
quality parameters for drinking water; central and local water supply systems for human collectivities.	3	

3. Hygiene of soil: soil properties; soil pathogenic potentialities; characterization of soil health; soil drainage.	1
4. Hygiene of solid and liquid wastes: classification, collection, removal and neutralization.	2
5. Hygiene of radiation: ultraviolet, infrared, light and ionizing radiations - characteristics, sources of radiation,	n
action on the human body, prophylactic measures.	Z
6. Inhabited buildings hygiene. Hygiene of public institutions.	2
7. Energy generating nutrients and catalytic nutrients: overview, structure, roles in the human body, the average	4
daily consumption and consequences of unbalanced consumption, dietary sources.	4
8. Food: milk and dairy products; meat, fish and products of meat and fish; eggs; vegetables and fruit; cereals and products	5
from cereals; fats; sugary products; beverages - categories, nutritional and energy value, average daily consumption.	5
9. Pathogenic potential of food: endogenous factors (complexing factors, enzyme inhibitors, protein structures	
potentially toxic and antinutritive, antivitamins, phenols, inedible mushroom components, alkaloids, glycosides,	
vasoactive substances, methyl alcohol, excess dietary fiber, substances potentially carcinogenic) and exogenous	3
factors (contaminants, parasites, environmental pollutants, residues of veterinary products, food additives, plastics,	U
detergents, nitrates, nitrosamines, radioactive contaminants). Preventive measures to maintain nutritional	
quality and food safety.	
10. Hygiene of children and adolescents: physical and psychic stages of children and adolescents' development,	1
influencing factors.	
BIBLIOGRAPHY	
1. Presented lectures $(2000)$ Elements $(1 + 1)$ $(1 + 1)$ $(1 + 1)$	
2. Viaicu Brigitna (coord.) – (2000) Elemente de igiena copilior și adolescenților, Editura Solness, Timișoara.	
3. Prejbeanu Ileana – (2004) Curs de Igiena alimentației pentru studenți, Editura Medicala Universitara, Craiova.	
4. Hilgenkamp Kathryn – (2006) Environmental Health – Ecological Perspectives, Jones and Bartlett Publishers	
Sudduly, Massachuseus 5. Draihaanu Ilaana (2014) Iaiana madiului jaura nantru studantii faaultătii da madiaină Editura Sitaah Craiava	
5. Frejbeanu Ileana – (2014) Iglena inculturu – curs pentru studenții facultății de incultura, Editura Sitech, Craiova	
0. Frejbeand healta – (2010) Essential of Environmental Health and Food Hygiene, Editura Shech, Craiova.	
1 Air bygione: determining microalimate factors determination of air pollution determination of the	
contamination of air objects and surfaces	4
2 Water bygione: determining contamination and water pollution, water disinfection control, walls drainage, water	
disinfection under necessity	3
3 Hygiene of soil: determination of pollution, soil contamination and infestation	2
4 Hygiene of radiation: determination of radiation, analysis of its influence on the human body	3
5 Determination of noise pollution and its action on the human body.	1
6 Hygienic and sanitary examination of foods: milk and dairy products meat fish and products of meat and fish	1
o. Hygeine and santary examination of roods. This and dairy products, meat, fish and products of meat and fish,	7
7 Human - food relationship: analysis of the nutritional status of a community	2
8 Medical actions in food poisoning	2
9 <b>Hygiene of children and adolescents:</b> assessment of physical and psychical development of children and	2
adolescents control of sanitary conditions in a school evaluation of the children and adolescents timetable	4
BIBLIOGRAPHY	
1 Labs protocols	
2. Preibeanu Ileana – (2002) Igiena alimentatiei-cajet de lucrări practice pentru studenti. Editura Medicală	
Universitară, Craiova.	
3. Preibeanu Ileana – (2015) Igiena mediului. Igienă scolară – caiet de lucrări practice pentru studenții facultății de	
medicină, Ed. Medicală Universitară Craiova.	
0 CORDORORATING THE DISCIPLINE CONTENT WITH THE EXDECTATIONS OF EDISTEMIC	

# 9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

Hygiene is a specialty discipline, compulsory in forming the medical students. Theoretical knowledge, practical skills and attitudes achieved by the students during this discipline classes, corroborated with those accomplished with other preventive medicine disciplines, represent a solid background to understand the influence of the environment on the human health and to adopt an adequate preventive behaviour.

## 10. MHETODOLOGICAL LANDMARKS

Course	Exposure, examining conversation, debate.					
Practical work	Exposure, examining conversation, debate, practical applications, demonstrations, essays presentations.					
Individual study	Preceding every lecture and every lab					

11. RECOVERY PROGRAM							
Absences recoveries	No. absences that can recover	Place of deployment	Period	In charge	Scheduling of topics		
	3	Hygiene lab/online	last week of the semester	Prof. Ileana Prejbeanu			
Schedule consultations / Students' Scientific Circle		Hygiene lab/online	weekly, depending on the timetable	Prof. Ileana Prejbeanu	Lecture and lab topics of that week		
Program for students poorly trained		Hygiene lab/online	weekly, depending on the timetable	Prof. Ileana Prejbeanu	Lecture and lab topics of that week		

Form of	Assessment		Percentage of
activity	Types of assesment	Methos of evaluation	final grade
Lecture	Formative assessment: oral Summative assessment: during the exam	Multiple Choice Questions Test. Multiple Choice Questions Answering System using the IT platform in the online version.	60%
Practical work	Formative assessment: oral/practical application/essays/ team work Periodic assessment: at the end of a chapter Summative assessment: during the exam	Practical exam. Multiple Choice Questions Answering System, simultaneously with the lecture exam, using the IT platform in the online version.	20%
Assesment of semester individual activity			20%
Minimum performance standard	At least 50% for each component of the evaluation		
13. GUIDANCE	AND COUNSELLING PROGE	RAMS	
Professional gui	lance and counselling programs	(2 hours/monthly)	
Scheduling the hours		Place of deployment	In charge
Weekly, depending on the timetable		Building B, 5 <sup>th</sup> floor/online	prof. Prejbeanu

Endorsement date in the department: 27.09.2022

Department Director,	Coordinator of study program,	Discipline holder,
Assoc. Prof. Constantin Kamal	Prof. Marius Eugen CIUREA	Prof. Ileana PREJBEANU