

Tbilisi State Medical University

Faculty	Public Health
Educational program	Environmental medicine
Academic degree to be conferred	Master of Environmental health
Head of Program	Assistant professor Genadi Kverenchkhiladze
Program volume	<p>The program duration is two years (4th semester); Students will earn 120 credit points (1 credit for 30 hours).</p> <p>Of the educational components is -75 % them, (90 credits), while the Research Component is -25% (30 credits).</p>
Language of instruction	Georgian
Aim of the program	By the declared mission of TSU, ensuring human health and well-being, optimizing its living environment, and also the needs of the labor market, the goal of the Master's program "Environmental Medicine" is to equip specialists with the necessary knowledge and skills for their professional activity and being able to participate in the implementation of health care policy and harmoniously be integrated into the national and international professional community.
პროგრამაზე დაშვების წინაპირობა/ ები	Enrollment in the master's program is possible after successfully passing the minimum competencies threshold for the unified national master's exam and based on the positive results of University Exams.
სწავლის შედეგები	<p>The learning outcomes are assessable, which means that it provides an opportunity to check the results and competencies achieved by the student.</p> <p>The program has the nine learning outcomes that enables the development of graduates' competence in three areas:</p> <ul style="list-style-type: none"> • knowledge and awareness, • Ability to • Responsibility and autonomy.

Knowledge and awareness

- Knows the methods of the sanitary control of the condition of environmental objects.
- Realizes the importance of timely detection of the effect of environmental factors on the population's health, in terms of developing appropriate preventive measures.
- Knows modern research methods and realizes their importance in the study of environmental medicine problems.
- Knows statistical analysis methods and their application in terms of data processing.

Skills

Ability:

- ✓ Detection of essential influence of the *manufacturing and non-manufacturing* sectors and evaluation of their impact
- ✓ on population health. Implementation of control over the planned preventive measures and their effectiveness.
- ✓ *Environmental Sanitation Control*. Environmental Sanitation Control. Monitoring the preventive medical examinations to develop population health rehabilitation of occupational disease prevention. Operational and retrospective analysis of population morbidity, participation in health care prevention measures;
- ✓ Impact of Environmental Factors and Industry products on the population health, ability to make conclusions, and planning the prophylactic measures conducting scientific research, and data analysis.
- ✓ Present your own concluding ideas, based on the analysis of laboratory and instrumental examinations data in the frames of the professional ethics standards, both in academic and informal relations using native and foreign (English) languages.
- ✓

Responsibility and autonomy:

- Having the own position and role in professional activities, given the responsibility, can contribute appropriately to the development of the knowledge and practice of environmental medicine.
- Can continue independent continuous professional education studies based on an objective assessment of own knowledge and skills in environmental medicine.

Employment opportunities for graduates.	<p>The fields of employment of graduates are:</p> <ul style="list-style-type: none">• Public Health Service of the <i>Ministry of Internally Displaced Persons from the Occupied Territories, Labor, Health and Social Affairs of Georgia</i>;• National Center for Disease Control and Public Health;• National Environment Agency of the Ministry of Environmental Protection and Agriculture of Georgia;• Labor conditions inspection department of the Ministry of Labor, Health and Social Protection for IDPs from the occupied territories of Georgia;• Sectoral scientific research universities.

31 people participate in the implementation of the master's program, who are having competency for contribution to this academic Program development

23 of them are academic staff, and 8 are invited staff.

Study plan/curriculum

(At the end of the curriculum there is a map of the curriculum)

The first year of teaching

No	Name of Module	Specialization	ECTS	
The first Semester				
Main subjects				
1	Contemporary Aspects of Environmental Medicine	1	4	
2	Medical ecology	1	2	
3	Radiation safety	1	4	
4	Actual aspects of Occupation Medicine	1	5	
5	English for Healthcare Professionals 1	1	2	
6	Epidemiological research methods and statistical Analysis	1	7	
Electives				
1	Hygiene of Medical Institutions	1	2	6
2	Hygiene and environmental Health	1	2	
3	Environmental Determinants of Population Health	1	2	
4	<i>Environmental health risks to children and adolescents:</i>	1	2	
Second Semester				
Main subjects				
1	healthcare <i>professional</i>	2	8	
2	Law on Healthcare and Legal regulations of medical activities	2	3	
3	English Language II (English for Environmental Health Students)	2	2	
4	Food policy and food security	2	5	
5	eco-pathologies	2	5	
6	Complex environment and population health	2	3	
Electives				
1	Food safety and sustainable development	2	2	4
2	Medical Aspects of Urbanization	2	2	
3	Management and Leadership in health Care	2	2	



Second year of Education

Third Semester

1	<i>Regional Healthcare's Occupational Health</i>	3	4
2	current issues of occupational labor safety	3	6
3	<i>Current topics in preventive toxicology.</i>	3	2
4	Environmental Health	3	6
5	Practice	3	10

Electives

1	Communication skills and conflict Management	3	2	2
2	Industrial ergonomics	3	2	
3	Prevention of Ecological Diseases	3	2	
4	Analytical writing	3	2	

4th Semester

	Scientific work (master's thesis)	4	30
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<i>Curriculum map for Master Program in Occupational and Environmental Medicine</i>				
1 -Introduction to the subject 2 - Deepen professional <i>knowledge</i> and skills 3 – strengthen the knowledge				
Name of the study course	Competencies of Master program graduates			
	Knowledge and understanding	Skills	Responsibilities and Autonomy	
1	Contemporary Aspects of Environmental Medicine	2	2	2
2	Medical Ecology	2	2	-
3	Radiation Safety	2	2	2
4	Actual Aspects of Contemporary Medicine	2	2	2
5	English as a Foreign language! I (English for Medical Students)	2	2	-
6	Research methods of epidemiological research and statistical analysis	2	2	2
7	Hygiene of Medical Facilities	2	2	-
8	Hygiene Environmental Physical Factors	2	2	-
9	Natural environmental factors and population health	1	2	-
10	Protection of children's and adolescents' health and the environmental factors	2	2	-
11	Healthcare <i>professional</i>	2	2	2
12	Law on healthcare and Regulation of Medical Activities	2	2	-
13	English as a foreign Language II (English for Environmental medicine)	2	2	-
14	Food policy and food safety	2	2	-
15	Eco-pathologies	1	2	2
16	Complex assessment of environment and population health	2	3	3
17	Food safety and sustainable development	2	1	-
18	Medical aspects of urbanization	1	2	-
19	Management and leadership in the health care system	-	2	-
20	Issues of regional medicine in occupational medicine	1	2	-
21	Actual issues of labor safety	2	2	2

