



APPROVED

at the meeting of the department of social medicine,  
economics and organization of health care  
minutes No 1 dated 30.08.2023

**THEMATIC-CALENDAR PLAN OF LECTURES**  
**on educational discipline "Social medicine, public health" (content module 1 "Biostatistics")**  
**for the 3-year English-speaking students of the second / master level of the higher education**  
**of the branch of knowledge 22 "Health care" specialty 222 "Medicine"**  
**in the 5th semester of 2023-2024 academic year**

*(the end of the semester 14.12.2023)*

No	Themes of lectures	Hours	Academ. group	Data	Time	Lector's name
1.	Fundamentals of biostatistics: history, practical significance, basic concepts	2	<b>1-5</b> <b>6-11</b>	12.09 05.09	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
2.	Descriptive statistics of quantitative indicators. Estimation of probability of the received results	2	<b>1-5</b> <b>6-11</b>	26.09 19.09	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
3.	Evidence - based medicine. Statistical indicators of diagnostic tests on the example of diagnostics of acute respiratory disease COVID-19 caused by coronavirus SARS-CoV-2	2	<b>1-5</b> <b>6-11</b>	10.10 03.10	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
4.	Sociological research in the health care system. Interrelation analysis	2	<b>1-5</b> <b>6-11</b>	24.10 17.10	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
5.	Medical and social problems of the health of population and methodology of its study	2	<b>1-5</b> <b>6-11</b>	07.11 31.10	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
6.	Medical and social problems of demographic processes. Features of demographic indicators in different regions of the world and in Ukraine, including during martial law	2	<b>1-5</b> <b>6-11</b>	21.11 14.11	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
7.	Morbidity of the population as a medical and social problem. Types and epidemiological methods of studying morbidity	2	<b>1-5</b> <b>6-11</b>	05.12 28.11	15 <sup>50</sup> -17 <sup>25</sup> 15 <sup>50</sup> -17 <sup>25</sup>	Associate Professor, PhD Gutor T. G., PhD Kovalska O. R.
<b>TOTAL</b>		<b>14</b>				

Head of Department,  
Associate Professor

GUTOR T. G.



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**THEMATIC-CALENDAR PLAN OF PRACTICAL LESSONS**  
**on educational discipline "Social medicine, public health" (content module 1 "Biostatistics")**  
**for the 3-year English-speaking students of the second / master level of the higher education**  
**of the branch of knowledge 22 "Health care" specialty 222 "Medicine"**  
**in the 5th semester of 2023-2024 academic year**

*(The end of the semester 14.12.2023)*

No	Themes of practical lessons	Hours	GROUPS AND DATES			
			Monday	Tuesday	Wednesday	Thursday
			1 (II les.) 5,6 (III les.)	8 (I les.) 7 (II les.) 3,4(III les.)	9 (I les.) 11 (II les.)	2 (I les.) 10 (III les.)
1.	Organization and conduct of statistical re- search	2	04.09	05.09	06.09	07.09
2.	Relative values	2	11.09	12.09	13.09	14.09
3.	Grouping values in the table. Graphic rep- resentation of statistical data	2	18.09	19.09	20.09	21.09
4.	Variation series. Mean values (Gaussian /Gaussian distribution)	2	25.09	26.09	27.09	28.09
5.	Mean values (non-Gaussian /Gaussian distribution)	2	02.10	03.10	04.10	05.10
6.	Time series and basics of prediction, in- cluding acute respiratory disease COVID-19 caused by SARS-CoV-2 coronavirus	2	9.10	10.10	11.10	12.10
7.	Standardization method	2	16.10	17.10	18.10	19.10
8.	Parametric methods for assessing the re- liability of the results (Student's criterion)	2	23.10	24.10	25.10	26.10
9.	Nonparametric methods for assessing the reliability of the results (Mann-Whitney test). Comparison of particles by the Pear- son chi-square method	2	30.10	31.10	01.11	02.11
10.	Survival analysis. Mortality	2	06.11	07.11	08.11	09.11
11.	Methods of conducting sociological re- search in medical practice, including dur- ing martial law	2	13.11	14.11	15.11	16.11
12.	Risk factors	2	20.11	21.11	22.11	23.11
13.	Correlation analysis (linear, rank correla- tions, regression)	2	27.11	28.11	29.11	30.11
14.	Effectiveness of diagnostic tests	2	04.12	05.12	06.12	07.12
15.	Power analysis. Types of errors in con- ducting clinical trials	2	11.12	12.12	13.12	14.12
	<b>TOTAL</b>	<b>30</b>				

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## THEMES OF INDEPENDENT WORK

on educational discipline "Social medicine, public health" (content module 1 "Biostatistics")  
for the 3-year English-speaking students of the second / master level of the higher education  
of the branch of knowledge 22 "Health care" specialty 222 "Medicine"  
in the 5th semester of 2023-2024 academic year

(the end of the semester 14.12.2023)

No	Theme	Number of hours	Types of control
1.	Clinical epidemiology, its significance for health care practice, including during martial law	4	Current control
2.	Analysis of general theoretical and methodological foundations of the formation and development of biostatistics as an independent science	4	Current control
3.	Types of values used in biostatistics and methods of visual representation of statistical data	5	Current control
4.	Characteristics and analysis of statistical data. Types of average values and criterion of variability of features	5	Current control
5.	Methods of alignment and indicators of time series	5	Current control
6.	Methods of standardization in the assessment of health of population and analysis of performance indicators of health care institutions	4	Current control
7.	Methods of assessing the reliability of the results of statistical research	5	Current control
8.	Analysis of the relationship between the studied parameters of statistical aggregates	5	Current control
9.	Methods of conducting of scientific research	4	Current control
10.	Medical and social problems of demographic processes and morbidity of the population, including acute respiratory disease COVID-19 caused by coronavirus SARS-CoV-2	5	Current control
	<b>TOTAL</b>	<b>46</b>	

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Associate Professor

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