

Head of the department prof., Chobanov R.A.

**TRAINING PROGRAM
(SYLLABUS)**

signature _____
15.11.2021

By subject "Public health and medical statistics"

**SPECIALTY
FACULTY**

**PUBLIC HEALTH
STOMATOLOGY**

ITEM CODE:	İPF – B41
ITEM TYPE:	MANDATORY
SEMESTER OF LEARNING:	P - 6
ITEM CREDIT:	4
SUBJECT LEARNING FORM:	FULL-TIME
SUBJECT LEARNING LANGUAGE:	AZERBAIJANI, RUSSIAN, ENGLISH

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PREREQUISITES:
Subjects that must be studied in advance to study this subject: microbiology, infectious diseases, epidemiology, hygiene.

COREQUISITES:
There is no need to study other subjects at the same time.

DESCRIPTION OF THE COURSE:

Public health and medical statistics, in interaction with other theoretical and practical medical disciplines (pharmacology, anatomy, hygiene and ecology, physiology, therapy, pediatrics, surgery and other sciences) studies the factors affecting public health and related issues in the organization of health statistics.

PURPOSE OF THE COURSE:

To acquaint students with the health of the population, its social nature, morbidity, disability, demographic processes, statistics of these processes, with the basics of medical statistics as a science, existing theoretical systems in medicine and health, health risk factors, sanology, valeology, important social and hygienic problems - their separate description, health concept, structural elements, health management and treatment-and-prophylactic enterprises.

COURSE RESULTS:

With the mastery of the subject, students should be able to understand public health, its social nature, medico-demographic processes, important social and hygienic problems, health management, marketing, management activities, structural units of health authorities, structure, procedure for drawing up annual reports, health planning, forecasting methods, financing, in order of budgeting - health economics, economic efficiency, in the maintenance of medical statistics, etc.

LIST OF PRACTICAL EXERCISES ON THE SUBJECT

N	Topic names	Hours
1	Principles of medical statistics. Theory of probability. Types of a statistical research. Research skills of students.	2
2	Organization of medical statistical researches and their stages. Planning of research	2
3	Rules of organization of a selective method of research. Method of calculation of a minimum necessary number of sample. Law of large numbers	2
4	Absolute and relative numbers	2
5	Graphic representations	2
6	Assessment of dynamics of development of phenomena. Method of analysis of dynamic (time) series	2
7	Variational statistics. Average values, their types. Rules of calculation	2
8	Values characterizing variational series	2

9	Methods of calculation and analysis of demographic indicators	2
10	Methods of calculation and analysis of indicators of morbidity and disability	2
11	Analysis of morbidity with temporary disability. Socia-and-medical expertise	2
12	Methods of standardization, their types and rules of its application. A direct method of standardization	2
13	Studying of connection between phenomena. Non-parametric statistical methods	2
14	Coefficient of conformity	2
15	Coefficient of itteration	2
16	Coefficient of rank correlation	2
17	Coefficient of linear correlation	2
18	Regression analysis	2
19	Methods of forecasting. Application of method of extrapolation of forecasting in medicine and healthcare	2
20	One-way dispersion analysis of qualitative attributes	2
21	One-way dispersion analysis of quantitative attributes	2
22	Classification of treatment-and- prophylactic establishments rendering medical care to population. Peculiarities of organization of dental care	2
23	Role of information support for managing of activity of medical establishments. Documents for registration and reporting	2
24	Organization of ambulatory-and-polyclinic care to population. Structure of polyclinics, principles of their work	2
25	Indicators of activity of polyclinics and their analysis	2
26	Characteristics of rendering of in-patient care to population. Types, structure, categories of hospitals, and organization of their activity	2
27	Key indicators of activity of hospitals, and their analysis	2
28	Establishments rendering dental care, their types, structure, and organization	2
29	Organization of ambulatory-and-polyclinic dental care to population. Analysis of activity of stomatologic polyclinic	2
30	Peculiarities of organization in-patient dental care	2
31	System of protection of motherhood and childhood, organization of medical services in	2

	maternity hospitals, perinatal centres, school and preschool establishments	
32	Analysis of activity of maternity hospitals and perinatal centres	2
33	Analysis of activity of children's polyclinics and children's hospitals	2
34	Centres of hygiene and epidemiology, organization of their work, their structure, analysis of indicators of their activity	2
35	Management and administering of healthcare. Marketing in healthcare. Cost, price and profitability	2
36	Economy of healthcare. Economic gain (effct) and economic efficiency. Economic problems of healthcare	2
37	Methods of planning of healthcare	2
38	Rules of estimation of demand for medical care	2
	Total	76

LIST OF LECTURE TOPICS ON THE SUBJECT

N	Topic names	Hours
1	Purpose of discipline “Public health and organization of healthcare”, its tasks, research methods, history of development, problems. Legal fundamentals of healthcare. Theoretical systems on population, medicine and healthcare. Medical ethics, deontology	2
2	State of health of population and methods of its studying. Factors influencing public health. Ecology and ecological assessment of a state of environment	2
3	Medical demography and morbidity, criteria of public health. Methods of studying and indicators of morbidity. Types of pathology of population	2
4	Healthcare system, its objectives and principles. Problems of healthcare. Healthcare systems in developed countries. Features of state, private and insurance healthcare systems	2
5	Management and control of healthcare. Categories of management. Bases of marketing of healthcare	2
6	Scientific bases of organization of medical services to population. Planning of healthcare	2
7	Economy and financing of healthcare	2
	Total	14

Samples of tests for all sections of the subject are prepared and placed in electronic form in a virtual database on the official website of the university.

ASSESSMENT:

The knowledge of students enrolled in the European Credit Transfer System is assessed on a multi-point scale. A student can receive a maximum of 100 points in a subject. 50 of these points are awarded based on the student's progress during the semester and 50 based on the results of the final exam.

The 50 points awarded for the student's activity during the semester are determined taking into account the following:

- For attendance of classes-10 points
- For independent work -10 points
- Based on the results of daily surveys (theoretical knowledge and skills) - 30 points.

Starting from the 2018/19 academic year, points are awarded for student attendance in a subject in accordance with the following table:

Credits	Hours	10 points	9 points to 10%	8 points to 20%	Not admitted to the exam
2	30 hours	0 hours	1-3 hours	4-6 hours	7 or more hours
3	45 hours	0 hours	1-5 hours	6-9 hours	10 or more hours
4	60 hours	0 hours	1-6 hours	7-12 hours	13 or more hours
5	75 hours	0 hours	1-8 hours	9-15 hours	16 or more hours
6	90 hours	0 hours	1-9 hours	10-18 hours	19 or more hours
7	105 hours	0 hours	1-11 hours	12-21 hours	22 or more hours
8	120 hours	0 hours	1-12 hours	13-24 hours	25 or more hours
9	135 hours	0 hours	1-14 hours	15-27 hours	28 or more hours
10	150 hours	0 hours	1-15 hours	16-30 hours	31 or more hours

From the 2018/19 academic year, a student who does not attend more than 40% of lectures (regardless of attending practical classes or seminars) will not be allowed to take the exam in this subject. This percentage of lectures is calculated from the following table:

Number of lectures	Total lectures hours	Not admitted to the exam (missed lecture hours)
2	4 hours	2 or more hours
3	6 hours	3 or more hours
4	8 hours	4 or more hours
5	10 hours	5 or more hours
6	12 hours	5 or more hours
7	14 hours	6 or more hours
8	16 hours	7 or more hours
9	18 hours	8 or more hours
10	20 hours	9 or more hours
15	30 hours	13 or more hours

CURRENT ASSESSMENT OF THEORETICAL KNOWLEDGE OF STUDENTS

During the semester, the student's theoretical knowledge is assessed on a 10-point scale (maximum 10 points) based on the student's questioning at least three times in practical classes. For example, if a student scored 6, 7, and 8 in the daily surveys, the average score was 7. Multiplying this number by three gives the student a final score of 21 in classroom surveys throughout the semester. The results of the daily interviews should be recorded in the teacher's journal without correction. In this case, in the teacher's journal and in the group journal on the corresponding pages for individual subjects, students who do not attend the lesson every school day are given "q", those who answer the questions are given a "ball", and those who attend, but does not receive a grade. "I/e" (participated). Thus, there should not be an empty cell in front of students' names. On their basis, at the end should be indicated the final number of points scored by the student during the semester in the subject.

The final grade of the student for the semester should objectively reflect the student's knowledge:

50 points - before the exam, including:

10 points - attendance,

10 points - independent work,

30 points - assessment of theoretical knowledge in practical training.

CALCULATION OF POINTS FOR INDEPENDENT WORK

Students must complete 10 independent papers during the semester. With a low workload, you can take 5 tasks (2 points). Each independent work is evaluated with one point, therefore the maximum number of points for independent work is 10. The list of independent work is compiled by the department in accordance with the subject program and is issued to each student in the first week of the semester. Each independent work is prepared by the student in writing, 1-2 pages long. A student preparing an independent work writes a work after studying (mastering) and free interpretation of the topic. Copying when writing a work is not allowed, regardless of the source! Independent work, depending on the student's desire, can be in the form of manuscripts, as well as computer texts or slide presentations.

Bibliography

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COURSEWORK

Coursework on this topic is not provided.

AN EXPERIENCE:

No production experience on this topic

Prepared:

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