

MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION  
MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC

Government-run Educational Institution of Higher Professional Education  
Kyrgyz-Russian Slavic University named after B.N. Yeltsin  
School of Medicine



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Chemistry

Course Outline (Module)

Assigned to  
Academic Curriculum 31050150\_15\_12GMД.pli.xml  
31.05.01. General Medicine

Qualification Specialist

Mode of Study Intramural

The course outline developed by: Abdurashitova J.A.

Course hours scheduling (per semester)						
Semester Academic Year	1 (1.1)		2 (1.2)		Total	
Weeks	18		19			
Type of training	AC	CO	AC	CO	AC	CO
Lectures	18	18	18	18	36	36
Lab practical	36	36	36	36	72	72
Practical session						
Contact work during the period of theoretical training	0,3	0,3	0,3	0,3	0,6	0,6
Including interactive session	2	2	3	3	5	5
Total in-class session	54	54	54	54	108	108
Face-to-face learning	54,3	54,3	54,3	54,3	108,6	108,6
Individual work	17,7	17,7	17,7	17,7	35,4	35,4
Total	72	72	72	72	144	144

## 1. COURSE OUTLINE OBJECTIVES

- to acquire knowledge related to the structure, properties and mechanism of functioning of biologically active substances;
- to establish a solid foundation for studying such disciplines as biological chemistry, microbiology, physiology, pathological physiology;
- to form scientific vision of basic physical and chemical regularities in the behavior of biochemical processes;
- to develop integral perception of chemistry which allows to understand living organism functioning on the whole and its interactions with the environment.

## 2. PLACE OF THE COURSE IN THE EDUCATIONAL PROGRAM

Educational Program Units: B1.B

### 2.1. Students' Preliminary Training Requirements:

2.1.1. Biology

2.1.2. Chemistry

### 2.2. Course Units and Practical Sessions imposing the prior Proficiency

2.2.1. Biochemistry

2.2.2. Normal physiology

2.2.3. Pharmacology

2.2.4. Clinical biochemistry

## 3. STUDENTS' COMPETENCIES RESULTING FROM THE COURSE UNIT (MODULE)

**OPK-7: readiness to use basic physical, chemical, mathematical and other natural science concepts and methods for solution of professional tasks.**

### **Knowledge:**

*Level 1.* General regularities of natural sciences for solution of professional tasks.

### **Skills:**

Level 1. To use general laws of natural sciences, to apply methods of mathematical analysis in experimental investigations.

### **Expertise:**

*Level 1.* General physical, chemical, mathematical and natural sciences laws.

### **Final Students' Competences.**

#### **3.1. Knowledge:**

3.1.1. General chemical biological concepts and laws.

**3.2. Skills:**

3.2.1. To use general laws of chemistry, biology and other natural sciences for analysis of processes occurring in living organisms.

**3.3. Expertise:**

The knowledge of the basic principles of the natural sciences, experimental skills for studying biochemical processes.