

ANNOTATION OF DISCIPLINE

1. Module (discipline) Chemistry 1.2

2. Symbol (code) DISC.B.M5

3. Specialty (OOP)

14.03.02 «Nuclear physics and Technology»

13.03.02 «Energy & Electrical Engineering»

13.03.03 «Power Engineering»

4. Qualifications (degree) Bachelor

5. Providing department General Chemistry and Chemical Department, High Technological Physics Institute

6. Lecturer: Yurmazova T.A. E-mail: yur-tatyana@yandex.ru

7. The results of the development of the module (discipline)

The results of discipline will be achieved:

Result No. 1. The student will demonstrate a knowledge and understanding of the fundamental laws of chemistry and chemical reactions, knowledge of the properties and methods for producing substances.

Result No. 2. The student will perform stoichiometric calculations; to determine the possibility of thermodynamic chemical processes; to record the reactions of chemical transformations of substances and their preparation; to draw analogies to change the properties of chemical compounds.

Result No. 3. The student will identify the relationship between the structure, properties and reactivity of chemical compounds.

Result No. 4. The student will apply this knowledge to determine, formulate and solve problems related to professional activities.

Result No. 5. The student will independently acquire knowledge and skills related to chemistry issues for professional development.

8. The content of the module (discipline) (the list of the main themes / topics)

Section 1. Basic laws and concepts of chemistry

Section 2. Structure of Matter

Section 3. Mechanism of chemical reactions

Section 4. Solutions

Section 5. Special Chemistry issues

9. Course 1 Semester 1-2 Amount of credits 3

10. Certification Exam

Author: Yurmazova T.A.