**ANNOTATION**

of educational program

**03.04.02 Physics**

**Training profile: Physics**

**Program Name**: 03.04.02 Physics

**Objectives**are to prepare highly qualified physicists.The program provides the training necessary for research and engineering work in research institutions and high-tech centers, as well as for teaching.

**Terms of training** in full-time education are 2 years, in part-time mode of study -2 years 6 months.

**Graduate Department**: Department of General and Medical Physics.

**The area of professional activity**: research, development and technology in the field of materials science, radiation physics, as well as research aimed at obtaining and evaluation of medical diagnostic imaging, experimental research and the introduction of instruments and methods of nuclear medicine.

**Objects of professional activity**: research systems and instruments for radiation in physical materials science, as well as high-tech computerized medical systems used in modern nuclear medicine.

**Features of the curriculum**: the study Master educational program "Physics" plan includes general scientific unit discipline (philosophical problems of science and technology, business foreign language, pedagogy and psychology of higher school, the basics of scientific research), professional module (modern problems of physics, actual radiation physics questions , fundamentals of nuclear technologies, additional sections of condensed matter physics, special physical workshop, physics division and accumulation of radioactive substances in the reactor, etc.).

A large amount of instructional time allotted to the research work and practice that will help to develop the skills to work on modern equipment and machinery, provides fast and natural occurrence of students in modern research process and facilitates rapid adaptation to their future careers.

**The list of enterprises for practical training and employment of graduates**: the research work of students is held in the 1st-3rdsemesters; the Production Practice (Research) in the 2ndsemester. Practical Training is carried out in the 3rd semester. Pre-diploma Practice is conducted in the 4th semester.

The list of enterprises for practical training: Research Institute of Atomic Reactors, the Federal High-Tech Medical Radiology Center of Dimitrovgrad.

Graduates are required to work at Research Institute of Atomic Reactors, the Federal High-Tech Medical Radiology Center of Dimitrovgrad and many leading scientific and research centers of the country.