**Bachelor degree program abstract in the field of training**

**15.03.01 Manufacturing Engineering**

*1. Code and name of the field of training, name of the program.*

15.03.01 Manufacturing Engineering, specificity – «Designing and technological maintenance of manufacturingindustries».

2*. Program educational objectives*: to develop students ' general cultural, general professional and professional competences in accordance with the requirements of the educational standard of higher education, independently defined by NRNU MEPhI in the given direction of bachelors` training.

Forms and terms of education:

-full - time- training period - 4 years.

- correspondence form of training – training period 5 years.

Entrance examinations – Mathematics, Physics, Russian.

*3. The characteristic of professional activity of the GEP of undergraduate:*

**The area of professional activity of undergraduates includes:** study, development and technologies, technology aimed at creating competitive products of engineering and based on the use of modern methods and means of engineering, mathematical, physical and computer modeling of technological processes; organization and execution of work on the creation, assembly, commissioning, maintenance, operation, diagnostics and repair of technological equipment of engineering production, on the development of technological processes of production of parts and components.

**The objects of professional activity of undergraduates are:** engineering production facilities, technological equipment and tool engineering, manufacturing technological processes, their development and the development of new technologies, specifications and technical documentation, standardization and certification systems; the development of tooling and mechanization and automation technology; means of informational, metrological, diagnostic and management software of technological systems in order to achieve the quality of products; methods and means of testing and quality control of products of mechanical engineering.

**Types of professional activities**: scientific-research, engineering and design, production and technological, innovative, organizational and administrative.

**Undergraduateprofession**: a design engineer, a process engineer, an engineer of automated control systems.

**Employment:** departments: a design department, a technology department, an automation and information department; Service Chief Engineer, Scientific and Research engineering works of machine-building, energetic and other enterprises, design and Research Institute.

Minimal competitive group marks: Mathematics – 38, Physics – 40, Russian - 38.