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

**08.03.01 Construction**

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

 08.03.01 Construction, specificity – «Industrial and Civil Engineering»

*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:** engineering research, designing, erection, operation, maintenance, monitoring, assessment, repairing and reconstruction of buildings and structures; engineering and equipment construction projects and urban areas, and also objects of transport infrastructure; the use of machines, equipment and technologies for construction and installation works, operation and maintenance of buildings and structures and also for manufacture of building materials, products and structures; business and production management in the construction and housing sector, including the provision and evaluation of economic efficiency of business and production activities; technical and environmental safety in construction and housing sector.
 **The objects of professional activity of undergraduates are:** industrial and civil buildings, engineering, hydraulic engineering and environmental constructions; buildings and structures of heat and nuclear power; construction materials, products and structures; systems of heat, electricity, ventilation, water supply and sanitation of buildings, structures and human settlements; environmental objects and objects of environment, interacting with buildings and structures; urban infrastructure and housing and municipal facilities; machinery, equipment, technological complexes and automation systems used during construction, operation, maintenance, repairing and reconstruction of building facilities and municipal facilities housing and, as well as in the production of building materials, products and constructions; real estate, land, urban areas, transport infrastructure.
 **Types of professional activities**: research and design; production and technology and production and management; experimental research; installation and commissioning and service and operation; business.
 **Undergraduate profession:** civil engineer; design engineer; cost estimator; expert in operation and management of real estate.
 **Employment**: government and private construction companies for the production of building materials, products and structures; construction and research laboratories; manufacturing and technological enterprises.

Minimum exam marks for a competitive group: Mathematics – 38, Physics – 40; Russian – 38.