**Government of the Russian Federation**

**Nizhny Novgorod branch**

**Federal State Autonomous Educational Institution of Higher Education**

**National Research University**

**Higher School of Economics**

**Faculty of Informatics, Mathematics and Computer Science**

**Department of Fundamental Mathematics**

**The program of industrial and pedagogical practice**

**for the master educational program 01.04.01 “Mathematics”**

Approved by

Academic Council

EP "Mathematics"

Protocol No. 1 on September 2, 2019.

Nizhny Novgorod, 2019

**1. General Provisions**

1.1. This program is developed in accordance with the Regulation on the project, research and development practices of students at the Higher School of Economics, approved by order of the rector of the Higher School of Economics, No. 6.18.1-01 / 0509-02 of September 05, 2016, and the Regulation on the Basic Educational Program of Higher Education, approved by the order of the rector of the HSE No. 6.18.1-01 / 0109-05 of September 1, 2014, the educational standard of the HSE 01.04.01. "Maths".

1.2. Practice is a compulsory activity of students of all educational master's programs implemented at the Faculty of Informatics, Mathematics, and Computer Science. It is a type of training that is directly oriented to the professional and practical training of students. Practice contributes to the formation and development of students' systemic and professional competencies, advancing practical skills necessary for future professional activities, expansion and deepening of knowledge determined by the content of compulsory and varied disciplines provided for by specific educational master's programs.

**2. The purpose of the practice**

The goals of industrial pedagogical practice are: to acquire the skills of teaching, educational and methodological work, to familiarize students with the technology, methods and traditions of teaching mathematics at the faculty, as well as to develop the skill of reviewing simple mathematical texts.

**3. Practice Content**

3.1. Industrial pedagogical practice takes place at the end of the first year of study on the master program, in April. Partial practice is also possible in other periods, without interrupting of the main educational program, according to the approved individual schedule.

3.2. The forms of practice may be as follows:

participation in the preparation of teaching materials for bachelor's and master's programs of the Department of fundamental mathematics;

participation in checking homework, examination papers of undergraduate students of the Department of fundamental mathematics under the guidance of a teacher;

teaching in the framework of additional and basic seminars and practical classes in the undergraduate Department of fundamental mathematics;

other types of scientific, scientific-auxiliary and educational-methodical work under the guidance of teachers of the Department of fundamental mathematics in the framework of academic programs.

The volume of work performed in each area from the standpoint of performance of the General program of practice is determined by the head of the master's program subject to the working time and the standard period of internship.

**4. Method of Practice**

By the method of conducting the practice, it is on a place, it can be carried out at other faculties, departments, laboratories, and other structural units of Higher School of Economics, which have the necessary personnel and scientific and technical potential.

**5. The form of the Practice**

The practice is conducted in discrete form. Discretely - by highlighting in the calendar curriculum a continuous study period for practice; on the period of carrying out by alternation in the calendar educational schedule of study periods for practice with study periods for theoretical studies.

**6. Practice structure**

The total complexity of the practice is 3 credits (114 hours), 2 weeks.

**7. Practice reporting**

Based on the results of the practice, the student presents a report about main results of the practice.

**8. Intermediate certification on Practice**

Intermediate certification in practice is carried out in the form of an exam. The examination has the form of an assessment of reporting documentation.

**9. Criteria and grading scale for intermediate certification in practice**

The report on teaching practice is evaluated by a ten-point rating system. Assessment for passing the pedagogical practice is carried out on the basis of the Regulations on the organization of intermediate certification and current monitoring of students ' progress at the National research University "Higher school of Economics". When the Manager gives an assessment for passing the practice, the following should be taken into account:

- nature of work;

- the volume and complexity of the work done by the student.

The rating is given, taking into account all the listed evaluation criteria, according to the degree of compliance with the rating categories on a 10-point scale:

10-Brilliant, 9-Excellent, 8-Almost excellent, 7-Very good, 6-Good, 5-Very satisfactory, 4-Satisfactory, 3-Bad, 2-Very bad, 1-Very unsatisfactory. Plagiarism and falsification of documents are assessed at 0 points.

**10. Fund of evaluation funds for conducting intermediate certification of students in practice**

Examples of tasks for students performing practical training:

- acceptance of problems at a mathematical workshop on the subject;

- participation in colloquiums;

- verification of control and independent work;

- assistance to teachers in preparing various methodological materials for the course.