**internship Programme**

**basic EDUCATIONAL PROGRAMme of higher education -**

**MASTER'S COURSE**

Statistical analysis in economics

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|  | Approved byAcademic Council of BEP |
| Author | Alexander E. Surinov  |  |
| Volume in credit units (c.u.)  | 11 c.u. |  |
| Duration in academic hours, including contact hours | 418 academic hours, including 2 contact academic hours |  |
| Year of study  | 2 |  |
| Kind of internship | Professional |  |
| Type of internship | Professional |  |

**GENERAL PROVISIONS**

According to Regulations for HSE Student Project Work, Research and Internships the goals and objectives of the internship are as follows:

**Goals and objectives of the internship**

*The purpose of the internship* is further systematization and deepening the theoretical and practical knowledge in economic disciplines obtained at the university, the practical application of economic knowledge to solve the problems of professional activity. Professional skills can be strengthened working for example in in government institutions, including state statistics entities, the Ccentral bank, in real sector enterprises, in insurance corporations, commercial banks, research and consulting agencies, international organizations.

The main task of the internship is retention of the knowledge gained by students and acquire practical (technical) skills and competencies in the field of professional activity. As a result of the practical training, the student solves the following tasks:

1. to consolidate the theoretical knowledge gained in the field of microeconomics, macroeconomics, econometrics, the system of national accounts, socio-economic statistics, data processing and analysis, as well as the knowledge gained within the framework of a research seminar attended by a student;
2. develop practical skills and abilities in the chosen professional activity, including economic analysis and interpretation of statistical observations and calculations;
3. collect the necessary materials for the preparation of the final qualification work, study methodological and technical documents, analyze data sources, their quality and availability, acquire skills in presenting research results and preparing scientific reports and papers.

The internship program must be developed by the student him(her)self in accordance with the goals and objectives formulated in this programme and coordinated with the person in charge at the place of internship. Tasks must be presented in the Individual Assignment (see Appendix 2) and agreed with the supervisor of the internship of this educational programme.

Student should **know**:

1. trends and patterns of development of the world economy,
2. basic concepts, categories and tools of economic theory and applied economic disciplines,
3. terminology, methodology and practice of compiling national accounts and other macroeconomic tables and balances,
4. foundations of the organization and methodology of statistical observations, including international statistical manuals and statistical classifications,
5. the main features of the Russian economy, its institutional structure, directions of the state's economic policy,
6. basic econometric models and methods of multivariate statistical analysis,
7. modern methods of processing statistical information,

**be prepared for:**

1. independently use sources of statistical and other quantitative information in order to describe and analyse phenomena in society and economy,
2. collect and analyse the data necessary to solve the assigned tasks,
3. discuss and interpret official statistical methodology, international recommendations and technical documents in the field of statistics,
4. calculate statistical indicators in accordance with international recommendations and national guidelines,
5. select tools for data processing in accordance with the assigned task,
6. analyse and interpret statistical data, formulate meaningful conclusions
7. present the results of analytical and research work in a completed form.

During the internship, students must:

1. fully implement the tasks stipulated by the internship program and work plan,
2. comply with the applicable internal regulations of the organization in which they follow the internship,
3. submit to the internship supervisor in the university a written report on the professional internship results due to the timeframe established by the curriculum.
4. keep a diary reflecting the step-by-step implementation of the work, starting with the preparation and delivery of an individual plan, the delivery of a letter of acceptance and an offer.

**A LIST OF EXPECTED LEARNING OUTCOMES DURING THE INTERNSHIP PERIOD, REGARDING TO THE EXPACTED LEARNING OUTCOMES OF THE EDUCATIONAL PROGRAM**

The following competencies are to be developed during the internship process:

| Competency code | Competency title  | Competency content | Professional tasks related to competencies  |  |  |
| --- | --- | --- | --- | --- | --- |
| ПК 1 | Ability to conduct independent research in accordance with the developed program | - quantitative and qualitative data collection, processing, and analysis of for scientific research; | Research and analytical activities |  |  |
| ПК 2 | Ability to present the results of the research to the scientific community in the form of an article, report, presentation | - preparation of scientific and analytical texts (reports, articles, sections of monographs, reviews, conclusions, etc.) for publication in scientific publications | Research and analytical activities  |  |  |
| ПК 4 | Ability to develop new criteria for evaluating the project effectiveness and apply a methodology for evaluating the project effectiveness taking into account the uncertainty factor | - data collection, processing and analysis in various analytical centers and media; | Research and analytical activities  |  |  |
| ПК 5 | Ability to prepare analytical materials for evaluating economic policy activities and making strategic decisions for the micro and macro levels | - preparation of scientific and analytical texts (reports, articles, sections of monographs, reviews, conclusions, etc.) for publication in scientific publications - participation in seminars, theory and practice oriented scientific conferences, round tables, presentations of research results | Preparation of analytical comments and expert judgments |  |  |

**INTERNSHIP'S STRUCTURE AND CONTENT**

| № | Kind of the student’s activity  | Activity content | Competencies to be formed |
| --- | --- | --- | --- |
| **1** | Research activity | - Data collection and processing for scientific research, the study of alternative sources of information in the subject area, including analysis of the possible use of Big data: - Search for sources of statistical data in the subject area, study the methodology for collecting and processing information, the availability and possibility of using available microdata of statistical observations, financial and accounting reports;- participation in seminars, theory and practice oriented scientific conferences, round tables, presentations of research results;- Preparation of bibliographic reviews, annotations, abstracts, explanatory notes, reports on the results of research work;- Presentation of the research results, including a critical analysis of related scientific literature, official methodological materials and technical manuals in the field of statistics on the topic of research. | ПК 1, ПК 2, ПК 4 |
| **2** | Administrative activity  |  Participation in the current work of the organization, in the preparation of conclusions and reviews, in the selection process of data sources and methods of data processing | ПК 5 |
| **3** | Expert and analytical activity | - Systematization, verification, presentation and analysis of information for decision - making for applied purposes, preparation of expert and analytical reports. | ПК 5 |

Student internship may take place both in Moscow and in the regions of the Russian Federation.

It is possible to have the internships in HSE departments or information resources.

During the internship, students must take part in all internal events, seminars, conferences, round tables, etc. that are open to the public. All interning students are the subject to the internal regulations of the organizations where they are interning.

**REPORTING**

Within 10 days after the completion of the internship, students submit:

**Feedback provided by the organization**, indicating the duration of stay of the trainee, in which the head of the organization or another responsible person assesses the theoretical training of the student, his abilities, professional qualities, discipline, efficiency; here comments and wishes are expressed and a score is given on a 10-point scale.

**Internship report.** Based on the internship results, the student provides a report on the practice, reflecting the work he performed during the internship, the skills and abilities obtained, and the competencies formed.