

**Specialty: Political Economy, Master program, full-time study**  
**Discipline: «Applied Economic Analysis (Advanced Course)»**

**Annotation**

Volume: 4 ECTS, 144 academic hours

Final control form: Pass

*Summary*

The discipline «Applied Economic Analysis (Advanced Course)» is designed to improve students' abilities to collect, process, and statistical and mathematical analysis of statistical indicators that have economic value, as well as to consolidate their knowledge and skills in building econometric models using computer programs. Particular attention will be paid to time series analysis. The analysis process, in turn, involves deepening into statistical disciplines, which are designed to determine the most appropriate options for collecting, presenting and analyzing spontaneously organized data in the form of grouped characteristics of the studied parameters. In this regard, it is supposed to familiarize and master the methods of practical statistics.

*The purpose and objectives of the discipline*

The main goal of the course is to familiarize students with the basic methods of processing primary information with the further use of the results obtained in the process of constructing dependency equations.

As a result of studying the course, the student must:

- Know the basic concepts and statements of «Applied Economic Analysis» in their relationship.
- Be able to independently use econometric methods using special software; correctly interpret the results obtained in the course of calculations.
- Have an understanding of the main problems that arise in the process of applying econometric methods, and how to solve them in practice.
- Possess the skills of building econometric models, modeling time series, including checking their adequacy to real data.

*Relationship with other disciplines of the specialty*

The discipline closely correlates with such specialty disciplines as: «Macroeconomics. Advanced Course», «Mega-economics», «Macroeconomic Planning and Forecasting. Advanced Course», «Theory of Economic Development and Backwardness», «Monetary Policy», «Calculated Models of Macroeconomic Dynamics» due to the fact that the knowledge and tools obtained in the course of studying the discipline make it possible to conduct full-fledged scientific research and in-depth understanding of economic dependencies.

*Requirements for the initial levels of knowledge and skills of students*

Successful mastering of the course «Applied Economic Analysis (Advanced Course)» presupposes the availability of knowledge in the basic macro and microeconomics components, their causal relationships, as well as in the basic statistical categories, which together serve as the foundation of econometric science. It is possible to start studying the discipline if you have basic knowledge of the disciplines: «Probability Theory and Mathematical Statistics», «Statistics», «Socio-Economic Statistics» and «Econometrics. Advanced Course», studied in the undergraduate and in the first semester of the master program.