

program, full-time study

Discipline: «Econometrics (Advanced course)»

Annotation

Volume: 4 ECTS, 144 academic hours

Final control form: Exam

Summary

The course «Econometrics (Advanced course)» is designed to improve students' abilities of mathematical analysis of various indicators that have economic and statistical value, as well as to consolidate their knowledge and skills in building models based on the analytical data obtained. The analysis process, in turn, involves deepening into statistical disciplines, which are designed to determine the most acceptable options for presenting spontaneously organized data in the form of grouped characteristics of the studied parameters. In this regard, it is assumed that students will become familiar with and master the methods of assessing errors, which are an integral part of practical statistics.

The course involves deepening into macro- and microeconomics for further presentation of objectively determined economic, statistical, demographic, price, and other kinds of phenomena in the form of linear and nonlinear one-dimensional and multidimensional numerical dependencies.

This course is necessary for master students of all economic specialties, as it makes it possible to use mathematical statistics as an applied discipline in relation to all economic phenomena that can be measured. The course contributes to the general increase in the analytical potential of students in the context of fast processing of large amounts of data and the issuance of the necessary parameters.

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 further use of the results obtained in the process of constructing dependency equations.

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 and Foreign Exchange Regulation» 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 «Econometrics (Advanced course)» assumes the availability of knowledge in the basic macro- and microeconomic 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» studied in the bachelor's degree.