

# **Studies in Systems, Decision and Control**

Volume 158

## **Series editor**

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# Economic Systems Analysis: Statistical Indicators

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# Preface

A team of authors has prepared the textbook of social–economic statistics for university students studying “Economics” (bachelor’s degree program) in English.

Sibirskaya Elena—Doctor of Economics, Professor of Department of Statistics of Plekhanov Russian University of Economics. Author of more than 200 scientific and teaching and methodological works. Sphere of interests is conducting basic and applied research, carrying out the expertise and providing advice on statistical analysis problems of Russian economy.

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A knowledge of social–economic statistics, a system of economic indicators, and methodology for their calculation provides an opportunity to work in any sector of the economy. Professional foreign language proficiency for economics graduates is one of the conditions for successful work and career advancement. Russian business is more integrated into the global economy and a foreign language proficiency becomes the same basic skill as the ability to use computers. Besides, the enterprises and firms try to refuse the services of an interpreter and employ staff members with knowledge of foreign languages and ability to translate the specialized literature and documentation.

Often, the knowledge of common foreign language is not enough in business and professional sphere and for effective communication with foreign experts in economy and finance sphere. In a globalized economy, the foreign language, especially English, becomes an important information product. It helps to make an objective assessment of the situation in the world economy, to strategize about more effective economy for the enterprise. This explains the development of professional literature in foreign language and creation of this textbook for studying the economic statistics.

Statistical Indicators for Economic Analysis book is written with consideration that readers are familiar with the theory of statistics, which has formulated the general methods and principles of establishing the quantitative characteristics of mass phenomena and processes. This book describes the concepts, definitions, indicators, and classifications of social–economic statistics with consideration of the international standards and the present-day practice of statistics in Russia. Most of the chapters are described briefly, but the authors believe that, nevertheless, the book has plenty of material for studying.

The book has 10 chapters, and here is a brief description of each chapter.

Chapter 1. “Introduction to Economic Statistics” reviews the subject, method, and goals of social–economic statistics, main groupings, and classifications.

Chapter 2. “Population Statistics” describes the target, subject, and sources of data on population statistics, the indicators, and main groupings of population distribution.

Chapter 3. “Statistics of Living Standards of Population” reviews the concepts and systems of living standards indicators.

Chapter 4. “Statistical Study of Labor Force” describes the concept of labor force and the goals of labor statistics.

Chapter 5. “Statistics of Labor and Company Personnel” reviews the concepts of company personnel and its structure, the indicators of employees’ headcount turnover, the indicators of work time records and use, methods of studying the dynamics of labor productivity across a set of companies, and factor models in studying the dynamics of labor productivity.

Chapter 6. “Macroeconomic Indicators in SNA” describes the system of national accounts, GDP, and other macroeconomic indicators.

Chapter 7. “Statistics of Production” reviews the conceptual framework of production, the types of production by grade of its readiness in manufacture, the methods inventory of manufacturing and selling products, and the methods of statistical assessment of selling activity and production quality.

Chapter 8. “Statistics of National Wealth” reviews the concept and structure of national wealth, the indicators of fixed assets availability and inventory.

Chapter 9. “Statistics of Production Costs” reviews the concept and structure of production costs, the methods of studying the dynamics of production cost price and distribution costs.

Chapter 10. “Statistics of Financial Outcomes of Company Operations” reviews the concept of gross profit and the types of profit, the quantitative characteristics of monetary relations in terms of emergence, allocation, use, and analysis of companies’ financial resources.

The textbook is created for students in economic specialties (the academic bachelor’s degree program) and can be used as an auxiliary literature for the students in other programs.

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Moscow, Russia  
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