

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ  
«ХАРКІВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ»

**МЕТОДИЧНІ ВКАЗІВКИ**

до виконання розрахункового завдання

з курсу «Макроекономіка»

для студентів спеціальності  
073 «Менеджмент»

Затверджено  
редакційно-видавничою  
радою університету,  
протокол № 2 від 29.06.2022 р.

Харків  
НТУ «ХПІ»  
2022

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
NATIONAL TECHNICAL UNIVERSITY  
“KHARKIV POLYTECHNIC INSTITUTE”**

**Department of General Economic Theory**

## **MACROECONOMICS**

**Methodical recommendations for calculation task  
for full-time students of specialty 073 «Management»**

Kharkiv  
NTU "KhPI"  
2022

Методичні вказівки до виконання розрахункових завдань з курсу «Макроекономіка» для студентів спеціальності 073 «Менеджмент» / уклад. А. С. Митрофанова. - Харків : НТУ «ХП», 2022. - 20 с. – Текст англ.

Укладач А.С. Митрофанова

Рецензент Н.Б. Решетняк

Кафедра загальної економічної теорії

## INTRODUCTION

Individual calculation task in «Macroeconomics» course is a creative, independent, completed, theoretical and practical work of the student on the proposed topics, which is performed on the basis of the principles and methods of macroeconomic analysis.

The structure and state of the main markets of national economy, methods of their qualitative and quantitative analysis, investigation of dynamics of macroeconomic indicators of the country, the state of foreign economic activity – these are the main problems studied in the calculation task.

The purpose of writing a calculation task is practical implementation of knowledge, skills and abilities acquired during lectures and practical classes, gaining ability to express an opinion independently, based on use of sources on a particular topic.

Internal structure of the calculation task is the following:

- Title page;
- Contents;
- Introduction (relevance of the topic, purpose, objectives of the study);
- Theoretical consideration of the essence of the problem; causes, types, consequences of the phenomenon under consideration;
- Independently conducted analysis of the problem using statistical data on the basis of the principles and methods of macroeconomic analysis.
- Recommendations and conclusions summarizing the author's position on the problem;
- References.
- Appendix (if applicable).

The main stages of performing the calculation task are the following:

- choosing the topic (variant is chosen corresponding to the number of the student's surname in the journal of the group);
- selecting and studying the literary sources, developing the plan; preparing the theoretical questions.
- preparing the analysis of statistical data;
- preparing the whole text of the calculation task;
- defense of the calculation task.

## **1. TOPICS FOR PERFORMING THE CALCULATION TASK**

1. Analysis of key macroeconomic indicators of Ukraine.
2. Analysis of sector structure and industrial structure of national economy.
3. Analysis of stock market
4. Analysis of exchange market
5. Business cycles in economic development
6. Macroeconomic analysis of economic growth and economic development
7. Macroeconomic analysis of labour market
8. Analysis of external economic activity
9. Macroeconomic analysis of income inequality
10. Analysis of public sector and policy of public spending
11. Macroeconomic analysis of industrial development
12. Macroeconomic analysis of agriculture
13. Macroeconomic analysis of service sector.
14. Methods of analysis of competition and monopoly on commodity market
15. Analysis of quality of living and living standards
16. Methods of analysis of regional structure of national economy
17. Macroeconomic equilibrium, its models and ways of its achievement.
18. Macroeconomic analysis of investment processes
19. Macroeconomic analysis of innovation activities.
20. Money and key monetary aggregates in the modern market system.
21. Financial market and its institutions.
22. Modern banking system of Ukraine.
23. Fiscal policy and regulation of the economy
24. Problems of monetary policy in Ukraine
25. Macroeconomic analysis of inflation and anti-inflationary policy.

## **2. METHODOLOGICAL RECOMMENDATIONS FOR PERFORMING TOPICS**

### **1. Analysis of key macroeconomic indicators of Ukraine.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: notions of GDP, unemployment and inflation; GDP as the main indicator in SNA; approaches to calculating GDP (expenditure approach, income approach and value added method).

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the GDP of Ukraine of five previous years using three approaches to calculating GDP. Observe dynamics of real GDP growth for ten years; dynamics of unemployment and inflation for the period of ten years. Make conclusions.

### **2. Analysis of sector structure and industrial structure of national economy.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: structure of national economy, its essence and conditions of formation; basic areas for analysis of the structure of national economy; structural adjustment of national economy.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute interrelation of the main sectors of economy, namely agriculture, industry and service sector. This ratio is estimated as proportion of every sector in GDP and employment. Industrial structure of national economy is determined by the share of each industry in the total output. Analyze sector structure and industrial structure of Ukrainian economy in 1995, 2010, 2021. Make conclusions.

### **3. Analysis of stock market.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: stock market as a part of financial market; institutions of stock market; main types of securities; indicators of analysis of bonds and shares.

*Analysis of statistical data.* Compare calculation and trends in international Dow Jones Indices and Ukrainian KAS-20 index for the period of ten years. Analyze structure of types of securities traded on Ukrainian stock exchange for the period of ten years. Make conclusions.

### **4. Analysis of exchange market.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: foreign exchange market as a part of financial market; institutions of exchange market; objects and indicators of analysis of foreign exchange market.

*Analysis of statistical data.* Visit the website of National bank of Ukraine, find corresponding information and analyze exchange rates of UAH to USD and EUR during last 20 years. Analyze volumes of trade in foreign currency, precious metals and natural precious stones in Ukraine. Make conclusions.

## **5. Business cycles in economic development.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: Essence and structure of business cycle, its stages; classifications of business cycles; procyclical and countercyclical variables.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and observe dynamics of real GDP growth, dynamics of unemployment and inflation for the period of 1990-2020. Try to suppose types and stages of business cycles in Ukraine during the period. Make conclusions.

## **6. Macroeconomic analysis of economic growth and economic development.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: concept, factors, types and models of economic growth; methods of estimation of economic growth and economic development.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators: real GDP growth, increase in real GDP per capita over the period of the last twenty years. Choose and analyze dynamics of one of the indices of sustainable development (environmentally-adapted net domestic product, indicator of “true savings”, index of environmental sustainability, index of “living planet”, ecological footprint). Make conclusions.

## **7. Macroeconomic analysis of labour market.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: labour market, its subjects, functions, classifications; procedures of analysis of labour market.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators: unemployment rate, employment rate, load coefficient per workplace, coefficients of

recruitment and dismissal, labour productivity for the period of the last five years. Make conclusions.

### **8. Analysis of external economic activity.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: external economic activity, its essence and institutions.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators: export ratio, import ratio, foreign trade ratio, coverage ratio of imports by exports, net exports, geographical and commodity structure of exports and imports, growth rates of exports and imports for the period of the last five years. Make conclusions.

### **9. Macroeconomic analysis of income inequality.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: differentiation of income, its essence, reasons, effects and indicators; methods of analysis of income structure.

*Analysis of statistical data.* Visit the website of World Bank and State Statistics Service of Ukraine, find corresponding information and observe the following indicators: level of wages, household expenditures on different consumer goods and non-consumption expenditures for the period of the last ten years. Compare the Gini coefficient in Ukraine with other countries. Make conclusions.

### **10. Analysis of public sector and policy of public spending.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: public sector and government budget; state ownership as a basis of state functions; government budget earnings and expenditures; budget deficit and surplus.

*Analysis of statistical data.* Visit the website of State Property Fund, find appropriate information and analyze the trends of volume and structure of state ownership in Ukraine. Visit the website of Ministry of Finance of Ukraine, find information about government budget of Ukraine for the period of the last five years and observe the structure of government expenditures and its changes. Make conclusions.

### **11. Macroeconomic analysis of industrial development.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: industrial production, its structure and modern trends of its development in postindustrial society; indicators of economic development of industrial production.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators for the

period of the last five years: fraction of industry in GDP and in employment; index of real volume of industrial production; growth rate of renewal of industrial products, which is calculated as the proportion of new products in total production output; fraction of each branch of industry in the export and import of industrial products. Make conclusions.

## **12. Macroeconomic analysis of agriculture.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: agriculture, its structure and trends of development in postindustrial society; indicators of economic development of agriculture.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators for the period of the last five years: fraction of agriculture in GDP and in employment; fractions of crop farming and animal breeding; index of real volume of agricultural production; grain production per capita, production of animal breeding products per capita; import and export structure of agriculture. Make conclusions.

## **13. Macroeconomic analysis of service sector.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: service sector, its structure and trends of development in postindustrial society; indicators of economic development of service sector.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and calculate the following indicators for the period of the last five years: fraction of service sector in GDP and in employment; index of real volume of service sector; structure of service sector; fraction of each branch of service sector in its export and import. Make conclusions.

## **14. Methods of analysis of competition and monopoly on commodity market.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: the essence of competition and monopoly; advantages and disadvantages of monopoly; market structures; indicators of monopolization.

*Analysis of statistical data.* Choose several industries of Ukrainian economy and try to analyze the degree of their monopolization for the period of five years using such indicators as Herfindahl–Hirschman index, market concentration index, the level of market monopolization.

## **15. Analysis of quality of living and living standards.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: the essence of quality of living and living standards and their interrelation; the main social and economic indicators of quality of living and living standards.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and calculate the following indicators for years 2013 and 2021: real GDP per capita, nominal and real wages, structure of revenues and expenditures of population. Compare the results. Visit the website of the World Bank, find and analyze Human development index, index of intellectual potential of society of Ukraine. Make conclusions and comparisons with other countries.

#### **16. Methods of analysis of regional structure of national economy.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: region, regional structure, reasons of regional disparities.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and analyze regional disparities in Ukraine using the following indicators: calculate fraction of gross regional product of every region in GDP of Ukraine in 2013 and 2021; compare gross regional product per person by region, volume index of gross regional product by region, average monthly wages by region, exports and imports of goods by region. Compare the results. Make conclusions.

#### **17. Macroeconomic equilibrium, its models and ways of its achievement.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: general *conditions* of macroeconomic equilibrium; equilibrium models of AD-AS, "Keynesian cross"; "Injections and exceptions", IS-LM model; multiplier effect and its mathematical and graphical interpretation.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine and in terms of "Keynesian cross" equilibrium model compare real aggregate expenditures and real GDP of Ukraine for five years; try to describe macroeconomic equilibrium of Ukrainian economy using schematic analysis in terms of AD-AS and "Injections and exceptions" models.

#### **18. Macroeconomic analysis of investment processes.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: investments, their essence, types, interrelation between investment and innovation activities.

*Analysis of statistical data.* Using the information from the website of State Statistics Service of Ukraine, give analysis of interrelation of gross and net investments, analysis of investment sources and analysis of sectoral structure of investments. Make conclusions.

### **19. Macroeconomic analysis of innovation activities.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: concepts of scientific and technical potential, innovation, innovation activity and their interrelation; indicators of innovation activity.

*Analysis of statistical data.* Visit the website of State Statistics Service of Ukraine, find corresponding information and compute the following indicators: part of industrial enterprises which implemented innovations; share of innovative products in the industrial output; structure of sources of financing innovations. Analyze calculated indices for the period of ten years. Make conclusions.

### **20. Money and key monetary aggregates in the modern market system.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: money supply and ways of its measuring; monetary base, monetary aggregates and concept of liquidity.

*Analysis of statistical data.* Visit the website of National bank of Ukraine, find corresponding information and calculate the structure of monetary aggregates in Ukraine and its dynamics; cash ratio and its dynamics during the period of ten years. Make conclusions.

### **21. Financial market and its institutions.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: financial market, its notion, structure, institutions and indicators for analysis.

*Analysis of statistical data.* Visit the website of National bank of Ukraine, find corresponding information and analyze exchange rates of UAH to USD and EUR during last 10 years; structure of borrowings, loans, credit facilities, debts in national economy by credit users; dollarization of national economy. Make conclusions.

### **22. Modern banking system of Ukraine.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: banking system, its levels; functions of Central Bank; bank operations.

*Analysis of statistical data.* Visit the website of National bank of Ukraine, find corresponding information and analyze variety and capitalization of the hugest banks

in Ukraine, their type of ownership; analyze National bank regulation policy. Make conclusions.

### **23. Fiscal policy and regulation of the economy.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: fiscal policy, its objectives, types and instruments; joint influence of fiscal instruments on GDP and state budget.

*Analysis of statistical data.* Visit the website of Ministry of Finance of Ukraine, find information about government budget of Ukraine and perform vertical and horizontal analysis of government budget earnings and expenditures: calculate their growth rates and structure during the period of the last five years; calculate budget deficit or surplus, multiplier of government expenditures. Make conclusions, whether the type of fiscal policy corresponds to the stage of the business cycle.

### **24. Problems of monetary policy in Ukraine.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: monetary policy, its essence, instruments and strategies.

*Analysis of statistical data.* Visit the website of National Bank of Ukraine, find appropriate information about instruments of monetary policy (open-market operations, reserve ratio, discount rate) during the period of the last ten years and analyze, whether the type of monetary policy corresponds to the stage of the business cycle. Make conclusions.

### **25. Macroeconomic analysis of inflation and anti-inflationary policy.**

*Theoretical questions.* In the topic the following theoretical issues should be covered: inflation, its causes, indicators and effects; Phillips' curve in short-run and long-run.

*Analysis of statistical data.* Visit the website of National bank of Ukraine, find corresponding information and calculate rates of inflation in Ukraine during the last twenty years. Analyze whether the tools of anti-inflationary policy corresponds to the rates and types of inflation in Ukraine. Make conclusions.

### 3. FORMAT REQUIREMENTS

Recommended volume of the calculation task is 12 - 17 pages. Prepared work is submitted carefully edited and printed on A4 paper (297 mm x 210 mm). Technical requirements for design are: font Times New Roman; size 14 point; line spacing - 1.5; paragraph - 1.25 cm, margins: right - 15 mm, left - 25 mm, upper, lower - 20 mm. Include page numbers. Divide your work into clearly defined and numbered sections. The titles of structural parts of the calculation task are printed in capital letters symmetrically to the text ("CONTENTS", "INTRODUCTION", "CONCLUSIONS", "REFERENCES" "APPENDIX"). Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. Any subsection may be given a brief heading. Each heading should appear on its own separate line and should be printed in small letters (except the first capital letter). Do not put a dot at the end of the title. The distance between the title and the text should be two spaces.

Write your text in good English (American or British usage is accepted, but not a mixture of these).

Statistical material and calculations should be arranged in the form of tables, figures and diagrams.

Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (not on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used. The figures should be arranged symmetrically to the text. It is recommended to leave one free line at the top and bottom of the figure.

Submit tables as editable text and not as images. Tables should be placed next to the relevant text in the paper or at the next page. The number is written after the word "Table"; the title is made above the table. It should be aligned left. It is recommended to leave one free line at the top and bottom of the table. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body.

Number tables and figures consecutively using the chapter number (e.g. Table 1.1 for the first table in Chapter 1).

Numbers of pages, sections, subsections, paragraphs, figures, tables, and formulae is given in Arabic numerals without the sign "№". The first page of the paper is the title page, which is included in the general numbering of the work. The

number of the page is not put on the title page. On the following pages the number is put in the upper right corner of the page without a dot at the end.

Explanations of symbols and numerical coefficients should be given directly under the formula in the order in which they are given in the formula. The value of each symbol and numerical coefficient must be given on a new line. The first line of the explanation begins with the word "where" without a colon.

In the process of work, students should use at least 15 high-quality relevant scientific sources. All bibliographic entries must contain a corresponding in-text citation. The addition of DOI (Digital Object Identifier) numbers is recommended but not essential.

Citation in the text of the task should be indicated by a serial number in the list of references, separated by square brackets, for example, "... in works [1-3]" or [1, 2]. If specific information or a quotation from a source is given, then example is: [1, p. 25], or [1, p. 25–29]. The order of references corresponds to the order they appear in the text.

Information about books (monographs, textbooks, reference books, etc.) should include: author's name and initials, book title, place of publication, name of publisher, year of publication, total number of pages. Information about the article from the periodical issues should contain: surname and initials of the author (s), title of the article, title of publication (journal), number of journal, year of publication, pages on which the article is placed.

Figures, tables, intermediate mathematical calculations, auxiliary text can be designed as appendices. Appendices have end-to-end page numbering, common to the document. Each appendix is placed on a new page. All appendices must be referenced in the text. Appendices are placed in the order of their citations in the text.

## **TITLE PAGE TEMPLATE**

Ministry of Education and Science of Ukraine  
National Technical University  
"Kharkiv Polytechnic Institute"

Department of General Economic Theory

### **CALCULATION TASK**

Course: "Macroeconomics"

Topic:

«\_\_\_\_\_»

Variant № \_\_\_\_\_

Completed by:

\_\_\_\_\_  
group \_\_\_\_\_

Checked by:

Kharkiv  
2022

## CONTENT PAGE TEMPLATE

### CONTENTS

Introduction.....	3
1. Labor market, its subjects, functions, classifications.....	4
2. Procedures of analysis of labor market.....	8
3. Analysis of labor market of Ukraine (on the basis of indicators: unemployment rate, employment rate, load coefficient per workplace, coefficients of recruitment and dismissal, labor productivity).....	10
Conclusions.....	15
References.....	16
Appendix.....	17

## REFERENCES

### Basic

1. Агапова Т.А. Макроэкономика / Т.А. Агапова, С.Ф. Серегина. – М.: Дело и Сервис, 2004. – 447 с.
2. Базилевич В. Д. Макроекономіка : підручник / В. Д. Базилевич, К. С. Базилевич, Л. О. Баластрик ; за ред. В. Д. Базилевича. – К. : Знання, 2008. – 743 с.
3. Гронтковська Г. Е. Макроекономіка: навч. посібник / Г. Е. Гронтковська, А. Ф. Косік. —К.: Центр учбової літ-ри, 2011. —400 с.
4. Кучерявенко І. А. Макроекономіка: практикум: навч. посібн. / І. А. Кучерявенко. – К. : Вікар, 2008. – 239 с.
5. Макроекономіка: навч. посіб. / за ред. проф. С.І. Архїєреєва. – Х.: Видавництво Іванченка І.С., 2019. – 216 с.
6. Макроэкономика: учеб.-метод. практикум / С. И. Архиреев, Н. Б. Решетняк, Н. Н. Волосникова, Н. В. Шибаева. – Х. : НТУ «ХПИ», 2007. – 52 с.
7. Методичні вказівки до самостійної роботи за курсом «Макроекономіка» / уклад. Т. А. Дяченко, Н. М. Волоснікова, Н. Н. Губанова та ін. – Харків : Видавництво Іванченка І.С.,2021. – 44 с.
8. Методичні рекомендації з організації семінарських занять за курсом «Макроекономіка» / уклад. Т. А. Дяченко, Н. М. Волоснікова, Н. Н. Губанова та ін. – Харків : Видавництво Іванченка І.С.,2021. – 60 с.
9. Benassy J.-P. Macroeconomic Theory / J.-P. Benassy. – Oxford University Press, 2011. —416 p.
10. Dornbusch R. Macroeconomics / Dornbusch R., Fischer S., Startz R. – McGraw-Hill/Irwin, 2010. —657 p. —11th ed.
11. Macroeconomics. Study guide for students of specialties 073 «Management», 072 «Finance, Banking and Insurance» / comp. Arkhiereiev S. I., Volosnikova N. M., Mytrofanova A. S. – Kharkiv: I. S. Ivanchenko Publishing House, 2018. – 64 p. – Eng.
12. McConnell, Campbell R. Economics: principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn. —18th ed. – McGraw-Hill/Irwin, 2009. – 917 p.

13. Mankiw Gregory N. Macroeconomics / Gregory N. Mankiw. – 9th Edition. — New York: Worth Publishers, 2016. —608 p.

14. Samuelson, Paul Anthony. Economics / Paul A. Samuelson, William D. Nordhaus. —19th ed., 2010. – 745 p.

### **Additional**

1. Бутук О. І. Макроекономіка : тренінг-курс: навчальний посібник / О.І. Бутук, Н. І. Волкова. - К.: Знання, 2007. - 235 с.

2. Гриценко А. А. Інститут таргетування інфляції: зарубіжний досвід і перспективи запровадження в Україні : Наукова доповідь / А. А. Гриценко, Т. О. Кричевська, О. І. Петрик ; НАН України, Інститут економіки та прогнозування. – К. : Фелікс, 2008. – 271 с.

3. Гуревичев М.М. Начала макроэкономического анализа / М.М. Гуревичев. – Харьков: Регион-информ, 2000. – 320с.

4. Довбняк Т. Ф. Циклічність української економіки в 2000 – 2008 роках / Т. Ф. Довбняк // Актуальні проблеми економіки. – 2009. – № 1. – С. 65–72.

5. Довгаль Е.А. Макроэкономика: учебное пособие для студентов экономических специальностей / Елена Андреевна Довгаль. – Харьков: Издательство НУА, 2010 . – 299 с.

6. Економіка України: навч. посібн. / А. П. Голіков, Н. А. Казакова, О. А. Шуба. – К.: Знання, 2009. – 286 с.

7. Економічна теорія. Макроекономіка: підручник / За ред. В.М. Тарасевич . – Київ: Знання, 2012 . – 206 с.

8. Кейнс Дж. М. Общая теория занятости, процента и денег / Кейнс Дж. М. – Пер. с англ. - М.: ЭКСМО, 2007. – 153 с.

9. Макроекономіка та макроекономічна політика: навчальний посібник / А.Ф. Мельник, Т.Л. Желюк, О.В. Длугопольський та ін. – Київ : Знання, 2008 . – 699 с.

10. Макроекономіка: підручник / О. М. Кліменко, О. М. Крюкова, В. М. Філатов та ін.; за заг. ред. О. М. Кліменко. – Х.: ХНЕУ, 2008. – 276 с.

11. Макроекономічна теорія: навчальний посібник / Г.І. Башнянин, Л.С. Томашик, А.Р. Серета та ін. – 2-ге вид., стереотип . – Львів : Новий Світ-2000, 2009 . – 550 с.

12. Практикум з навчальної дисципліни «Макроекономіка» для студентів всіх спеціальностей усіх форм навчання / укл. О. М. Крюкова, О. М. Кліменко, М. С. Бриль та ін. – Х. : Вид. ХНЕУ, 2010. – 108 с.

13. Радіонова І. Ф. Загальна макроекономічна нерівновага: зміст теорії та можливості застосування / І. Ф. Радіонова // Економічна теорія. – 2007. – № 2. – С. 81–93.

14. Савченко А. Г. Макроекономіка : навч.-метод. посібн. для самостійного вивч. дисц. / А. Г. Савченко, О. В. Пасічник – К.: КНЕУ, 2006. – 176 с.

### Web-Sites

1. Бюджетний кодекс України від 08.07.2010 р. № 2456-VI [Електронний ресурс]. – Режим доступу : <http://zakon.-rada.gov.ua>.

2. Господарський кодекс України від 16.01.2003 № 436-IV [Електронний ресурс]. – Режим доступу : <http://zakon.-rada.gov.ua>.

3. Державна служба статистики України. – Режим доступу: <http://www.ukrstat.gov.ua/>.

4. Податковий кодекс України від 02.12.2010 № 2755-VI [Електронний ресурс]. – Режим доступу : <http://zakon.rada.gov.ua>.

5. Сервер Верховної Ради України. – Режим доступу : [www.rada.gov.ua](http://www.rada.gov.ua).

6. Урядовий портал. Єдиний веб-портал органів виконавчої влади України. – Режим доступу: <https://www.kmu.gov.ua/ua>.

7. Офіційний Web-сайт Міжнародної організації праці. – Режим доступу: <http://www.ilo.org/global/lang--en/index.htm>

8. Офіційний Web-сайт Світового банку. – Режим доступу: <http://www.worldbank.org>.

9. Офіційний Web-сайт Федеральної резервної системи США. – Режим доступу: <http://www.federalreserve.gov>.

10. Веб-сайт статистичної інформації країн Європи. – Режим доступу: <http://epp.eurostat.ec.europa.eu/>

## CONTENTS

INTRODUCTION	3
1. TOPICS FOR PERFORMING THE CALCULATION TASK	4
2. METHODOICAL RECOMMENDATIONS FOR PERFORMING EACH TOPIC	5
3. FORMAT REQUIREMENTS	12
TITLE PAGE TEMPLATE	14
CONTENT PAGE TEMPLATE	15
REFERENCES	16

Навчальне видання

**Методичні вказівки**  
до виконання розрахункових завдань  
з курсу «Макроекономіка»

для студентів спеціальності 073 «Менеджмент»

Укладач:

МИТРОФАНОВА Анастасія Сергіївна

Відповідальна за випуск доц. Решетняк Н.Б.

Роботу рекомендував до друку проф. Перерва П.Г.

Комп'ютерна верстка Митрофанова А.С.

В авторській редакції

План 2022, поз. 150

Підп. до друку \_\_\_\_\_.

Гарнітура Times New Roman.

---

Видавничий центр НТУ «ХП».

Свідоцтво про державну реєстрацію ДК № 5478 від 21.08.2017 р.

61002, Харків, вул. Кирпичова, 2