
COURSE SYLLABUS

FOR FULL-TIME UNDERGRADUATE PROGRAMS

(Issued under Decision No.1380/QĐ-ĐHKTQĐ on 15/8/2016 by the University President)

1. COURSE NAME: Industrial Statistics

Code: TKKT1108

Number of Credits: 02

2. DEPARTMENT IN CHARGE OF INSTRUCTION:

Socio-Economic Statistics

Office: 4th floor-Building N^o7 – NEU

Office Hours: 8.am - 5pm

Office Telephone: 0438524662

3. PRE-REQUISITE: Theory of Statistics

4. COURSE DESCRIPTION:

This course equips students with the knowledge of statistics: (1) The statistical indicators system of outputs in industrial enterprises, product quality analysis and forecast business outcomes in industrial enterprises; (2) The system of economic efficiency indicators in industrial enterprises; the method of analyzing and measuring the economic efficiency variation effected by factors; (3) Calculating and analyzing the indicators of business expense and industrial product costs; (4) The indicators of labor usage and labor income; analysing databases of labor and labor income; (5) The indicators of fixed assets equipment and usage; (6) the indicators of electrification, mechanization, automation, statistics indicators of inventor, technical innovation, specialization and production cooperation, the technical progress adaptation of labor and economic efficiency evaluation of new technical applications; (7) The indicators of the scale, structure and usage of current assets; the supply, storage and usage of materials in industrial production; (8) The indicators of industrial enterprises' financial situation (including scale, structure and economic efficiency of capital and assets, ...) and the indicators of industrial enterprises' finance possibility (including efficiency of costs, the profitability of net revenue and debt solvency).

5. COURSE OBJECTIVES:

The objective of the Industrial statistics is to provide students general knowledge about the calculus and analysis method of industrial statistical indicators in industrial enterprises, namely: business outcomes and economic efficiency; basic production resources; technical progress; financial outputs and financial position of industrial enterprises; production indices, export indices and inventory indices of industrial products (studied in Chapter 2).

6. COURSE CONTENT:

TENTATIVE SCHEDULE

<i>No</i>	<i>Contents</i>	<i>Total hours</i>	<i>In details</i>		<i>Notes</i>
			<i>Theory</i>	<i>Practice, Discussion, Exams</i>	
1	Chapter 1	2	2	-	
2	Chapter 2	6	4	2	
3	Chapter 3	8	6	2	
4	Chapter 4	5	3	2	
5	Chapter 5	8	5	3	
6	Midterm exam	1	-	1	
	Total	30	20	10	

CHAPTER 1 – INTRODUCTION TO INDUSTRIAL STATISTICS

This chapter equips students with general theoretical issues on the subject of industrial statistics, such as the subject of the study, the scope of the study, theoretical bases and methodology; roles of statistical information for the management and organization in the industrial enterprises. The content of this chapter includes:

1.1. General principles of industrial enterprises

1.2. Statistical information in industrial enterprises

Texts and readings for the chapter:

1. Prof. Dr. of Science Tu Dien, editor (1994), Statistics in Enterprises, Science and Technology Publishing House.
2. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD. Nguyen Cong Nhu, co-editor (2009), Statistics in Enterprises, Vietnam Education Publishing House.
3. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD. Nguyen Cong Nhu, co-editor (2009), Textbook “ Business Statistics”, Statistical Publishing House, Hanoi.

CHAPTER 2 – PRODUCTION AND BUSINESS OUTCOMES AND EFFICIENCY IN INDUSTRIAL ENTERPRISES

This chapter provides learners with concepts and methods of analyzing of production-business operation, business outcomes and economic efficiency in Industrial Enterprises.

2.1. Production and business outcomes in industrial enterprises

2.1.1. What is production and business outcomes?

2.1.2. Indicator system of production and business outcomes

2.1.3. Thống kê chất lượng sản phẩm công nghiệp

2.1.4 Forecasting production and business outcomes

2.2. Production and business efficiency in industrial enterprises

2.2.1. What is production and business efficiency

2.2.2. Indicator system of production and business efficiency

2.2.3. Methods of analyzing production and business outcomes and efficiency

Texts and readings for the chapter:

1. Prof. Dr. of Science Từ Điển, eds (1994), Statistics in Enterprises, Science and Technology Publishing House .
2. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD. Nguyen Cong Nhu, co-editor (2009), Textbook “ Business Statistics”, VietnamEducation Publishing House.
3. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD. Nguyen Cong Nhu, co-editor (2004), Textbook “ Business Statistics”, Statistical Publishing House, Hanoi
4. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, PhD. Tran Thi Bich, co-editor (2012), Textbook “Principles of Economic Statistics”, Vietnam Education Publishing House.
5. PhD. Nguyen Cong Nhu, eds (2003), The problem of Income distribution in kind of enterprises in Vietnam: situation, perspectives and complete solutions , Statistics Publishing House.
6. Vice Prof. PhD. Nguyen Cong Nhu (2004), Statistical Prediction for industrial development of Vietnam (theory, prospects and solutions), Statistical Publishing House, Ha Noi.
7. The Ministry of Finance (2004), The state of financial report in Enterprises, Financial Publishing House, Hanoi.
8. Parliament of Republic Socialist Vietnam (1997), the Law on Value Added Tax.
9. Parliament of Republic Socialist Vietnam (1997), the Law on Coporate Income Tax.
10. Parliament of Republic Socialist Vietnam (2003), the Law on Statistics
11. GSO Vietnam (2005): Industry Vietnam in 20 years of innovation, Statistical Publishing House, Ha Noi.
12. GSO (2005): The method of calculating production indices, export indices and inventory indices of industrial products.

CHAPTER 3 - MAIN RESOURCES IN INDUSTRIAL ENTERPRISES

This chapter provides students with the calculus and methods of analyzing major productive resources indicators in industrial enterprises, such as labor, current assets and fixed assets.

3.1. Labor

3.1.1. Labor and working time

3.1.2. Salary and incomes

3.2. Fixed assets

3.2.1. General principles

3.2.2. Methods of analyzing fixed assets

3.2.3. Fixed assets depreciation

3.2.4. Fixed assets equipment and efficiency of fixed asset usage

3.3. Current assets

3.3.1. General principles

3.3.2. Methods of analyzing current assets

3.3.3. Methods of analyzing materials usage and inventory

Texts and readings for the chapter:

1. Prof. Dr. of Science Từ Điển, (1994), Textbook Statistics in Enterprises, Social and Labor Publishing House .
2. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD Nguyen Cong Nhu, co-editor (2008), Textbook “Statistics in Enterprises”, Vietnam Education Publishing House.
3. Prof. PhD Pham Ngoc Kiem and Vice Prof PhD Nguyen Cong Nhu, co-editor (2004), Textbook Business Statistics, Statistics Publishing House.
4. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, PhD. Tran Thi Bich, co-editor (2012), Textbook “Principles of Economic Statistics”, Vietnam Education Publishing House.
5. PhD. Nguyen Cong Nhu, (2003), The problem of Income distribution in kind of enterprises in Vietnam: situation, perspectives and complete solutions , Statistics Publishing House.
6. GSO Vietnam (2005): Industry Vietnam in 20 years of innovation, Statistical Publishing House, Ha Noi.
7. GSO, Statistical Yearbook

CHAPTER 4 - TECHNICAL PROGRESS IN INDUSTRIAL ENTERPRISES

This chapter provides students with the calculus and methods of analyzing indicators on electrification, mechanization, automation, inventor, technical innovation, expertise and production cooperation; the technical progress adaptation of labor and economic efficiency evaluation of new technical applications.

4.1. Roles of technical progress

4.2. Electrification process

4.3. Mechanization process

4.4. Automation process

4.5. Technical innovations and proposal of production rationalization

4.6. Production specialization and production cooperation

4.7. Methods of evaluating economic efficiency of new technical applications

Texts and readings for the chapter:

1. Prof. Dr. of Science Từ Điển, (2009), Textbook Statistics in Enterprises, Social and Labor Publishing House .
2. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, co-editor (2012), Textbook “Statistical Theory”, Vietnam Education Publishing House.
3. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, co-editor (2009), Textbook Statistics in Enterprises, Vietnam Education Publishing House.
4. Prof. PhD Pham Ngoc Kiem and Vice Prof PhD Nguyen Cong Nhu, co-editor (2004), Textbook Business Statistics, Statistics Publishing House.
5. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, PhD. Tran Thi Bich, co-editor (2012), Textbook “Principles of Economic Statistics”, Vietnam Education Publishing House.

CHAPTER 5 – FINANCIAL SITUATION AND FINANCIAL RESOURCES OF INDUSTRIAL ENTERPRISES

This chapter equips students with the calculus and methods of analyzing indicators on financial situation and financial resources in the industrial enterprises.

5.1. Financial situation

- 5.1.1. Capital
- 5.1.2. Efficiency of using capital
- 5.1.3. Assets
- 5.1.4. Efficiency of using assets

5.2. Financial resources

- 5.2.1. Net revenue and profit
- 5.2.2. Efficiency of product costs
- 5.2.3. Profitability of net revenue
- 5.2.4. Factors affecting net revenue and profit
- 5.2.5. Solvency liabilities

Texts and readings for the chapter:

1. The Ministry of Finance (2008), The state of financial report in Enterprises, Financial Publishing House, Hanoi.
2. Prof. PhD. Ngo The Chi and Vice Prof. PhD Nguyen Trong Co, co-editor (2008), Analysis of Finance in the enterprise, Finance Academy, Finance Publishing House, Ha Noi.
3. Vice Prof Nguyen Van Cong (2009), Textbook “Analysis of business operations”, NEU Publishing House, Hanoi
4. Vice Prof. PhD Nguyen Van Cong (2010), Textbook” Analysis of the

- financial statements”, Vietnam Education Publishing House
5. PhD. Phan Duc Dung (2011), Financial Statements Analysis, Statistics Publishing House
 6. Vice Prof. PhD Nguyen Cong Nhu (2012), Text book “Financial analysis in the enterprise”, Hanoi Open University.
 7. Parliament of Republic Socialist Vietnam (2003), the Law on Statistics
 8. Parliament of Republic Socialist Vietnam (1997), the Law on Value Added Tax.
 9. Parliament of Republic Socialist Vietnam (1997), the Law on Corporate Income Tax.

7. REQUIRED TEXTBOOKS & COURSE MATERIALS:

Vice Prof. PhD. Nhu Nguyen Cong (2004), Textbook Industrial Statistics, Statistical Publishing House, Ha Noi.

8. RECOMMENDED TEXTS & OTHER READINGS:

1. The Ministry of Finance (2008), The state of financial report in Enterprises , Financial Publishing House, Hanoi
2. Prof. PhD. Ngo The Chi and Vice Prof. PhD Nguyen Trong Co, co-editor (2008), Analysis of Finance in the enterprise, Financial Academy, Finance Publishing House, Ha Noi.
3. Vice Prof Nguyen Van Cong (2009), Textbook “Analysis of business operations”, NEU Publishing House.
4. Vice Prof. PhD Nguyen Van Cong (2010),Textbook” Analysis of the financial statements”, Vietnam Education Publishing House
5. PhD. Phan Duc Dung (2011), Financial Statements Analysis, Statistics Publishing House
6. Prof. Dr. of Science Từ Điển, (1994), Textbook Statistics in Enterprises, Science and Technology Publishing House .
7. Prof. PhD Pham Ngoc Kiem and Vice Prof PhD Nguyen Cong Nhu, co-editor (2004), Textbook Statistics Theory, Education Publishing House
8. Prof. PhD Pham Ngoc Kiem and Vice Prof PhD Nguyen Cong Nhu, co-editor (2004), Textbook Business Statistics, Statistic Publishing House
9. Prof. Pham Ngoc Kiem, Vice Prof Nguyen Cong Nhu, PhD. Tran Thi Bich, co-editor (2012), Textbook “Principles of Economic Statistics”, Vietnam Education Publishing House.
10. Prof. PhD. Pham Ngoc Kiem and Vice Prof. PhD Nguyen Cong Nhu, co-editor (2009), Textbook “Statistics in Enterprises”, Vietnam Education Publishing House.
11. PhD. Nguyen Cong Nhu, eds (2003), The problem of Income distribution in kind of enterprises in Vietnam: situation, perspectives and complete solutions, Statistics Publishing House.
12. Vice Prof. PhD Nguyen Cong Nhu (2012), Text book “Financial analysis in

the enterprise”, Hanoi Open University.

13. Vice Prof. PhD. Nguyen Cong Nhu (2004), Statistical Prediction for industrial development of Vietnam (theory, prospects and solutions), Statistical Publishing House, Ha Noi.
14. Parliament of Republic Socialist Vietnam (1997), the Law on Value Added Tax.
15. Parliament of Republic Socialist Vietnam (1997), the Law on Corporate Income Tax.
16. Parliament of Republic Socialist Vietnam (2003), the Law on Statistics
17. GSO Vietnam (2005): Industry Vietnam in 20 years of innovation, Statistical Publishing House, Ha Noi.
18. GSO (2005): The method of calculating production indices, export indices and inventory indices of industrial products.
19. GSO: Statistical Yearbook.

9. ASSESSMENT & GRADING POLICY:

The assessment and grading policy complies with the current regulations of the National Economics University. Specifically:

- Class attendance: 10%
- Mid-term exam: 30%
- Final exam: 60%

(To be eligible for final exam, students need to achieve minimum scores of 5 and 3 for attending class and mid-term exam, respectively)

Hanoi, 2016

HEAD OF DEPARTMENT

PRESIDENT

(signed)

(signed)

MSc. Nguyen Thi Xuan Mai

Prof.Dr. Tran Tho Dat