

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: Agricultural Statistics

Code: TKKT1116

Number of Credits: 02

2. DEPARTMENT IN CHARGE OF INSTRUCTION:

Socio-Economic Statistics

Office: Room 401-402, Building No 7, NEU

Office Hours: 8:00 – 17:00, from Monday to Friday

Office Telephone: 04.38693275

3. PRE-REQUISITE: Theory of Statistics

4. COURSE DESCRIPTION:

Agricultural Statistics presents the basic issues of indicator system, calculation methods and sources of statistical information for the management of inputs such as land, soil classification, labor, capital and natural resources. Grasping the content and method of the indicators system reflects production and business situation and the situation of the income distribution of state-owned units, cooperatives in rural , etc. Indicator system reflects the basic matters of agriculture and rural areas.

5. COURSE OBJECTIVES:

"Agricultural Statistics" aims to provide and improve statistical knowledge on agricultural sector for students such as basis statistical knowledge, detailed knowledge which is expressed through quantitative statistical indicators applying in the agricultural sector. Then, students will understand methods of calculation, methods of analysis and meaning of each statistical indicators and data sources which can be analysed, be collected in the field of agriculture. The course also provides methods of construction and analysis of factors which can affect agricultural production situation. The students can learn to forecast and make plan on agricultural economic development, while this course will also provide students with methodology and systems of agricultural statistical indicators.

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	3	2	1	
2	Chapter 2	6	4	2	
3	Chapter 3	6	4	2	
4	Chapter 4	6	4	2	
5	Chapter 5	8	5	3	
6	Midterm exam	1			
	Total	30	19	10	

CHAPTER I –INTRODUCTION TO AGRICULTURAL STATISTICS

Agriculture includes agriculture, forestry, fishery. Agriculture is a traditional economic sector which appears very early in the history of human civilization. Today agriculture becomes a very important sector (part) which takes account for 25% of GDP on the total national economy and gets a lot of attention from the Party and State.

Agriculture produces food meeting the demand of people and also providing abundant raw materials for processing and exporting activities in agriculture, forestry, fisheries. Agriculture creates job for about 70% of the labor force in society. Agriculture is also a big market for mass consumption products such as fertilizers, pesticides, machinery and equipment using for agricultural production, etc

This chapter introduces an overview of the course to students , which helps students to distinguish the difference between agricultural statistics with other statistical subjects.

1.1 What is Agricultural Statistics?

1.1.1. The object of Agricultural Statistics

1.1.2. The function of Agricultural Statistics

1.2 Research methods in Agricultural Statistics

1.2.1. The methodology of the subject

1.2.2. The rationale of the subject

1.3 Characteristics of agricultural production

Texts and readings for the chapter:

- Assoc. TS. Tran Thi Kim Thu (2012), Theory of Statistics Textbook, National Economics Publishing House.

CHAPTER II - AGRICULTURAL RESOURCES STATISTICS

Agricultural production requires resources such as land, labor and machinery. Especially among them, the most important resource is land because the soil quality has a strong impact on the results of production. Because of the special role of land in agricultural production, all studies in agriculture must take into account the land (size, quality, use, etc.). A series of economic indicators are calculated on a unit of land as crop yields, livestock density, which is produced per hectare ... Statistics on agricultural resources also needs to mention the labor force in agriculture, as well as machinery for agricultural production. This chapter helps students to understand the roles of agricultural resources in agricultural production. We need to use methods of statistical analysis to evaluate the roles of agricultural resources, and also understand the factors affecting agricultural power threshold.

2.1 Lands

2.1.1 Roles of land in agricultural production

2.1.2 land uses

2.1.3 Soil quality

2.2 Fixed assets and long term investments of agricultural enterprises

2.2.1 General principles

2.2.2 Indicator System

2.3 Labor in agricultural enterprises

2.3.1 Labor and labor changes

2.3.2 Use of working time

2.3.3 Labor productivity

2.3.4 Labor income

2.4 Methods of analyzing agricultural resources

2.4.1 Methods of analyzing land

2.4.2 Methods of analyzing fixed assets and long term investments of agricultural enterprises

2.4.3. Methods of analyzing labor

Texts and readings for the chapter:

- Land Law

CHAPTER III – CULTIVATION STATISTICS

In agriculture, land is the most important resource because the fertility of the land has a strong influence on the results of production. Because of the special role of land in agricultural production, all studies of economic phenomena in agriculture must take into account the land (the size, the quality, the use, etc.). A series of economic indicators is calculated on a unit of land as crop yields, livestock density, which is produced per hectare ...

3.1 Cultivated area

3.1.1 Basic concepts

3.1.2 Classification of plants

3.1.3 Total cultivated area

3.2 Crop yield and production

3.2.1 Indicator system

3.2.2 Methods of analyzing yield

Texts and readings for the chapter:

- Some applications statistical terms, GSO, Statistical Publishing House, 2004

CHAPTER IV - LIVESTOCK STATISTICS

Livestock plays an important role in the national economy in providing qualified products with high nutritional food in order to meet the food demand of people. Livestock is also a place to create traction and fertilizer for crop. Livestock Statistics provides information about the size of livestock and results of livestock.

4.1 Livestock

4.1.1 Number of livestock

4.1.2 Changes of livestock

4.2 Livestock products

4.2.1. Basic concepts

4.2.2. Weight of meat

4.3 Methods of analyzing livestock

4.3.1. Analyzing the development of livestock

4.3.2. Analyzing the factors affecting the production

Texts and readings for the chapter:

- Assoc. TS. Tran Thi Kim Thu (2012), Theory of Statistics Textbook, National Economics Publishing House.

CHAPTER V – STATISTIC ANALYSIS IN AGRICULTURE ENTERPRISES

Chapter 5 introduces methods of calculating and analysing indicators on production and business outcomes in agriculture enterprises.

5.1 Outcomes of agriculture enterprises

5.1.1 Gross Output

5.1.2 Value-added

5.1.3 Profit

5.2 Methods of analyzing outcomes of agriculture enterprises

Texts and readings for the chapter:

- Assoc. TS. Tran Thi Kim Thu (2012), Theory of Statistics Textbook, National Economics Publishing House.

7. REQUIRED TEXTBOOK & COURSE MATERIALS

8. RECOMMENDED TEXTS & OTHER READINGS

1. Pham Ngoc Track & et al (1999), Construction of indicator system evaluating the results of production and business activities of enterprises in Vietnam, Published CTQG.
2. Nguyen Xuan Light (1997), Value Added Tax and the model applied in VN, Publisher of Finance, Hanoi
3. Assoc. TS. Tran Thi Kim Thu (2012), Theory of Statistics Textbook, National Economics Publishing House.
4. GSO (2004), Methods in Vietnam SNA Editor, Statistical Publishing House.
5. Decision No. 10/2007 / QD-TTg of January 23, 2007 by the Prime Minister on the System Issued Vietnam economy.
6. Decision No. 167/2000 / QD-BTC dated 25/10/2000 on the issuance of financial reporting regime now - Ministry of Finance - Public Notice No. 47 - 22-12 - 2000
7. The regime of management, use and depreciation of fixed assets - Finance Ministry of Finance Publisher 12-1996
8. Statistical Law
9. Land Tax Act, 2003
10. On 23.06.2014, the Ministry of Agriculture and Rural Development issued Circular No. 18/2014 / TT-BNN additional list of livestock breeds permitted for production and trading in Vietnam
11. Report No. 100 / 07.02.2013 of the BC-BTNMT current use of land
12. <http://www.mard.gov.vn>
13. Circular 23/2015 on the processing management, improve the environment for use in livestock, aquaculture, dated 06.22.2015
14. Results of the census of agriculture, fisheries and rural areas by 2011.

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

(signed)

MSc. Nguyen Thi Xuan Mai

PRESIDENT

(signed)

Prof.Dr. Tran Tho Dat