

## **COURSE SYLLABUS**

### **FOR FULL-TIME UNDERGRADUATE PROGRAMS**

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

#### **1. COURSE NAME: Statistics for Investment and Construction**

Code: **TKKD1109**

Number of Credit: 02

#### **2. DEPARTMENT IN CHARGE OF INSTRUCTION: Business Statistics Department**

Office: Room No.401 – Block 7 – National Economics University

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

Office Telephone: 04.38693275

#### **3. PRE-REQUISITE: *Theory of Statistics***

#### **4. COURSE DESCRIPTION:**

Investment and construction are two different activities, but are closely related to each other. Investment is a finance activity to maintain and create new production capacity for fixed assets. Construction is an activity aimed at simple reproduction and expansion of fixed assets. These are two components of the course. The course provides general theoretical issues related to investment and construction activities; the indicators system of investment and construction activities; Statistical analysis methods on investment and construction data. This course helps students to understand and make good use of statistical information on investment and construction activities. It is also an important tool in students' work in the future.

#### **5. COURSE OBJECTIVES:**

The course equips students with knowledge about the quantitative methods, how to collect and use information in management and administration of investment and construction sectors.

## 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	0	
2	Chapter 2	13	6	7	
3	Chapter 3	14	6	8	
4	Mid-course test	1		1	
	<b>Total</b>	<b>30</b>	<b>14</b>	<b>16</b>	

### CHAPTER 1– RESEARCH OBJECT, TASKS AND METHODS OF STATISTICS FOR INVESTMENT AND CONSTRUCTION

*This chapter introduces the basic content of the course including objects, scope, research methodology and the statistical systems of investment and construction sectors in Vietnam; how to collect statistical information about investment and construction under predefined indicator system (including indicator system according to the level and content of investment).*

#### **Content:**

- 1.1. Object of Statistics for Investment and Construction.
- 1.2. The establishment and development of Statistics for Investment and Construction.
- 1.3. The role and tasks of Statistics for Investment and Construction.
- 1.4. The Indicator System in Investment and Construction in Vietnam.
- 1.5. The statistical organization of Investment and construction in Vietnam.
- 1.6. The research method of Statistics for Investment and Construction in Vietnam.

#### ***Texts and readings for the chapter:***

- Prof. Dr. Phan Cong Nghia, 2010, Textbook: Statistics in Investment and Construction, National Economics of University Publishing House.

- Prof. Dr. Phan Cong Nghia – Assoc. Prof. Dr. Bui Duc Trieu, 2012, Textbook: Statistics in Economics, National Economics of University Publishing House.

## **CHAPTER 2: STATISTICS FOR INVESTMENT**

*This chapter introduces the basic content of investment activities, especially investment activities for development, indicators system and analysis methods for investment capital, investment results and investment efficiency.*

### **Content:**

#### 2.1. Statistics for investment activities

2.1.1. The concept of investment and investment for development.

2.1.2. The investment capital Indicators System

2.1.3. Statistical analysis the implementation of investment capital

#### 2.2. Statistics for investment results

2.2.1. Investment results indicators system

2.2.2. Analysis construction in progress

2.2.2.1. The indicators of construction in progress

2.2.2.2. Research on the implementation of the plan of construction in progress

#### 2.3. Statistics for investment efficiency

2.3.1. The concept of investment efficiency and the task of statistics

2.3.2. Statistical methods to assess the effectiveness of investment

2.3.2.1. Method of scoring

2.3.2.2. Method of multidimensional average

2.3.2.3. Synthesis effectiveness method on the basis of objectives and resources of the investment project

### ***Texts and readings for the chapter:***

- Prof. Dr. Phan Cong Nghia, 2010, Textbook: Statistics in Investment and Construction, National Economics of University Publishing House.

- Prof. Dr. Phan Cong Nghia – Assoc. Prof. Dr. Bui Duc Trieu, 2012, Textbook: Statistics in Economics, National Economics of University Publishing House.

- Assoc. Prof. Dr. Nguyen Bach Nguyet, 2008, Textbook: Planning and evaluation of investment projects, National Economics University Publishing House.

### **CHUONG 3. STATISTICS OF CONSTRUCTION ACTIVITIES**

*Chapter 3 addresses the issues related to manufacturing activities in the construction organizations including resources for building (labor, capital), the results of production and production costs of the construction organizations.*

#### **Content:**

- 3.1. The overview of statistics for production activities in the construction organizations
- 3.2. Statistics for the results of construction activities
  - 3.2.1. The Indicator System for the results of construction activities
  - 3.2.2. Analysis of construction activities
- 3.3. Statistics for labor in the construction units
  - 3.3.1. Statistics for the use of labor and labor time in the construction organizations
  - 3.3.2. Statistics for labor productivity in construction
  - 3.3.3. Statistics for labor income in construction
- 3.4. Statistics for capital goods in construction
  - 3.4.1. Statistics for building materials
  - 3.4.2. Statistics for fixed assets in construction
- 3.5. Statistics for cost and capital in construction organizations
  - 3.5.1. Statistics for the capital in construction organizations
  - 3.5.2. Statistics for production costs and cost of construction products

#### ***Texts and readings for the chapter:***

- Prof. Dr. Phan Cong Nghia, 2010, Textbook: Statistics in Investment and Construction, National Economics of University Publishing House.
- Prof. Dr. Pham Ngoc Kiem - Assoc. Prof. Dr. Nguyen Cong Nhu, 2004, Textbook: Business Statistics, Statistics Publishing House.

#### **7. REQUIRED TEXTBOOK & COURSE MATERIALS**

- Prof. Dr. Phan Cong Nghia, 2010, Textbook: Statistics in Investment and Construction, National Economics of University Publishing House.

#### **8. RECOMMENDED TEXTS & OTHER READINGS**

- Prof. Dr. Phan Cong Nghia, 2010, Textbook: Statistics in Investment and Construction, National Economics of University Publishing House.

- Prof. Dr. Phan Cong Nghia – Assoc. Prof. Dr. Bui Duc Trieu, 2012, Textbook: Statistics in Economics, National Economics of University Publishing House.
- Prof. Dr. Pham Ngoc Kiem - Assoc. Prof. Dr. Nguyen Cong Nhu, 2004, Textbook: Business Statistics, Statistics Publishing House.
- Assoc. Prof. Dr. Nguyen Bach Nguyet, 2008, Textbook: Planning and evaluation of investment projects, National Economics University Publishing House.

#### 9. ASSESSMENT & GRADING POLICY:

Comply with the current regulations of National Economics University.

- The evaluation of teachers: 10%
- Mid-course test: 30%
- Final test: 60%

(Students are eligible to take the final test if: the evaluation of teachers is at least 5, the minimum of mid-course test score is 3)

*Hanoi, 2016*

**HEAD OF DEPARTMENT**

**PRESIDENT**

(signed)

(signed)

**MSc. Do Van Huan**

**Prof.Dr. Tran Tho Dat**