KT02043: APPLIED INFORMATICS IN ECONOMIC

1. General information

- o Term: 2
- o Credits: **Total credits 2 (Lecture: 1.5 – Practice: 0.5)**
- o **Self-study: 6** credits
- o Credit hours for teaching and learning activities: 30 hrs
- o Self-study: 90 hrs.
- o Department conducting the course:
    - Department: Econometric
    - Faculty: Economic and Rural Development
- o Kind of the course:

Foundation ☒		Fundamental ☐		Specialized	
Compulsory ☐	Elective ☒	Compulsory ☐	Elective ☐	Compulsory ☐	Elective ☐

- o Prerequisite course(s): TH01009- Introduction to Informatics

2. Course objectives and expected learning outcomes

* *Course objectives*:

- Knowledge: Course provided for students with knowledge in storing, synthesizing and analyzing data in the fields of: economics, accounting, business administration

- Skills: Course provide students with skills in enter and store data, calculate for different purposes, analyze data for specific purposes (variance, regression, correlation...), proficient in using computers for service study and scientific research.

- Attitude: Course provide students with attitudes in self-study, update knowledge to improve level.

* *Course expected learning outcomes*

Notation	Course expected learning outcomes (CLOs) After successfully completing this course, students are able to	Program performance criteria (PPC)
Knowledge		
CLO 1	Applying algorithms - informatics to the accounting mayor	1.1
Skills		
CLO 2	Effective communication with research subjects through the application of informatics software	5.1
Attitude		
CLO 3	Set short-term and long-term goals through the application of information technology knowledge	10.1

3. Course description

Brief description of the course: This course consist of 3 chapters with content: Introduction to Excel Program and SPSS Program, basic commands and tools for specialized applications. Collect and process survey data. Some commonly used tools (statistics, econometrics, econometrics) in the fields of economics, accounting and business administration.

4. Teaching and learning & assessment methods

CLOs	CLO1	CLO2	CLO3
Teaching methods			
Lecturing	x		
Teaching through practical work		x	
Group-based learning			
Assessment			
Rubric 1. Assignments (10%)	x		x
Rubric 2. Practical (15%)	x	x	
Mid-term exam (15%)	x	x	
Final exam (60%)		x	x

5. Student tasks

- Attendance: All students participating in this course must attend the class at least 75% according to the Academy's Regulations.

- Preparation for the lecture: All students participants in this course must read the textbook and reference materials before coming to class at the request of the instructor.

- Assignment: All students must participating in this course must do all the exercises assigned to each chapter.

- Mid-term exam: All students participants midterm exam in the form of computer exercises or multiple choice.

- Final exam: All students must achieve a minimum of 75%, do exercises and complete practice tests, have a score in the midterm exam.

6. Text books and references

 *** Text Books/Lecture Notes:**

1. Lecture on Application of Informatics in Economics / Department of Quantitative Analysis, Faculty of Economics and Rural Development, Vietnam Academy of Agriculture, 2022

2. Textbook of Applied Informatics: Second edition, with additional corrections / Assoc.Prof.Dr. Han Viet Thuan: Editor. - H.: KTQD, 2018 . - 343 million; 20 cm

3. Textbook of financial statement analysis. Editor: Nguyen Van Cong; National Economics University Publishing House, 2019.

*** Additional references:**

4. Financial accounting in business: Theory and practice. Tran Manh Dung (c.b), Pham Duc Cuong, Dinh The Hung. Finance Publishing House, 2018.

5. Accounting in service business enterprises. Ha Thi Thuy Van, Vu Thi Kim Anh, Dam Bich Ha. Finance Publishing House, 2017.

7. Course outline

Week	Content	Course expected learning outcomes
1	*Chapter 1: INTRODUCTION TO THE APPLIED INFORMATICS IN ECONOMIC* *Unit:*	

	A/ **Main contents**: (3 hours) **1. Theories:** (3 hours) 1.1. The role of information technology in economics 1.2. Objects and research scope of the subject 1.3. Overview of application software in economics **2. Practice:** (0 hours)	CLO1, CLO2
	B/ **Self-study contents**: (9 hours)	
...	*Chapter 2: EXCEL SOFTWARE APPLICATION IN ECONOMICS*	
	Unit:	
	A/ **Main contents**: (16.5 hours) **1. Theories:** (12 hours) 2.1. Data Management in EXCEL 2.2. Some financial functions 2.3. Some data analysis commands 2.4. Some other application commands **2. Practice:** (4.5 hours)	CLO1, CLO2, CLO3
	B/ **Self-study contents**: (49.5 hours)	
	Chapter 3: SPSS SOFTWARE APPLICATION IN ECONOMICS	
	Unit:	
	A/ **Main contents**: (10.5 hours) **1. Theories:** (7.5 hours) 3.1. Data Management in SPSS 3.2. Correlation analysis, regression 3.3. Exploratory factor analysis **2. Practice:** (3 hours)	CLO1, CLO2, CLO3
	B/ **Self-study contents**: (31.5 hours)	