

Introduction to Economic Data Analysis

Syllabus Number

8B102

course of economics
studies Elective
Requisites 2 credit

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1. Course Description

One of the missions of the Department of Regional Economics is to train human resources who can contribute to regional revitalization. When revitalizing a region, at first, it will be necessary to understand the current situation in the target region. And more, "Introduction to Economics" has dealt with introductory contents of economic theory in modern economics. However, economic analysis includes not only theoretical analysis but also empirical analysis. This course will cover introductory contents on the techniques of handling quantitative data used to understand the current situation in the target region and perform empirical analysis. The method of analyzing quantitative data is based on statistics, so this course will cover introductory subjects of statistics.

2. Course Objectives

The goal achieved in this course will be summarized as one point: "I have learned the introductory content of statistics, which is the basis of the quantitative data analysis method."

3. Grading Policy

Grades will be assessed on homework and final exams. In order to earn credits for this subject, the following two conditions are required. One is to submit homework that meets certain standards. The other is to take the final exam and to score more than a certain level.

4. Textbook and Reference

Textbook

Specific textbook is not used. In this course, we use LMS to distribute the course materials. We will teach based on the course materials.

5. Requirements(Assignments)

The preparation required for this course is as follows:

-Depending on the progress of the course, download the materials from the LMS and read the downloaded materials.

-As far as possible, refer to the references for the details of the contents described in the materials, and the words that you do not understand.

The review required for this course is the following:

-Review the materials and notes which is taken during class.

-Read the bibliography about subjects you do not understand or you are interested.

-When homework is given, please complete and submit them.

6. Note

7. Schedule

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|------|-------------------------------------|
| [1] | Guidance |
| [2] | The purpose of data analysis |
| [3] | The role of statistics |
| [4] | Basic knowledge about data |
| [5] | Frequency table, histogram |
| [6] | Box plot, time series graph |
| [7] | Average, median |
| [8] | Mode, weighted average |
| [9] | Mean deviation, variance |
| [10] | Standard deviation, standardization |
| [11] | Correlation and scatter plot |
| [12] | Covariance |
| [13] | Correlation coefficient |
| [14] | Regression line |
| [15] | Wrap-up |