



VILNIAUS
KOLEGIJA

VILNIAUS KOLEGIJA/UNIVERSITY OF APPLIED SCIENCES

STUDY SUBJECT/MODULE PROGRAMME (SSMP)

Entitlement

Statistics, 5 ECTS

Prerequisites

B1 level of English language, Applied Mathematics, Computer Information Management

Main aim

Apply knowledge and develop the skills required for the collection, systematization, analysis and forecasting of statistical information, developing competencies in communication and cooperation, accounting policy formulation and the state of economic entities, performance analysis and evaluation.

Summary

Introduces statistics as an applied methodological science, discusses the methods of information collection, systematization and analysis, teaches to describe mass phenomena in a generalized way and to obtain meaningful conclusions. The concept of statistical science and practice is presented, the functions and role of statistics are indicated, the stages and methods of statistical research are discussed - statistical observation, grouping, averages, dispersion indicators, indices and correlation and regression analysis, which will help to understand how to collect statistical information, when and how apply the sampling method, how statistical information can be systematized, analyzed and presented in the statistical data processing and analysis program Excel, how distribution and time series are obtained and analyzed, what is the purpose of index and correlation methods and their practical application.

Learning Outcomes

1.	Will apply advanced statistical information systematizing methods and means.
2.	Will form a database of statistical data, tables, graphs required for data analysis, calculate statistical indicators.
3.	Will calculate and evaluate economic financial condition and performance results and provide conclusions and suggestions. Will analyze, forecast and evaluate the change of economic and financial indicators, their interrelationship. Will apply statistical methods in modeling the management of an undertaking. Will provide an assessment of the business prospects of economic entities.
4.	Will apply mathematical methods in statistics principles of social responsibility. Will interpret the available data of the international economic and work environment presented in tables and figures.

Syllabus

1.	Concept and Development of Statistics.
2.	Organizing and Activity Principles of Statistics.
3.	Statistical Observation.
4.	Statistical Data systematization.
5.	Statistics and Dissemination Indices. Relative, average sizes.
6.	Basics of Correlation and Regression Analysis.
7.	Dynamics (time) lines.
8.	Indices.

Evaluation procedure of knowledge and abilities

$FE = 0,5 \cdot X1 + 0,5 \cdot X2$, as

FE – final evaluation; X1 - independent work; X2- exam