Discipline: Theory of statistics
Annotation
Labor intensity: 4 ECTS, 144 academic hours.
Final control form: exam

Statistics is the science of turning data into ideas and ultimately into solutions.

With the latest advances in machine learning, the science of data science and artificial intelligence cost fundamental statistical principles. The purpose of this discipline is to develop and understand these basic ideas on a solid mathematical foundation, starting with building

assessments and tests, as well as analysis of their asymptotic performance. Statistics - it is more than just a representation of numerical information. Statistics are collection and processing information to create a conversation, stimulate additional questions, and providing a basis for decision making.

The study of "Theory of statistics" contributes to the development of basic analytical knowledge and quantitative methods that will enable students to apply them in their analytical and research work while studying in bachelor's and master's degrees, and also in subsequent years of work. In this course, students will learn about data collection, descriptive statistics, sampling, surveys, statistical relationships between data and modeling.

Thus, there are at least three reasons for studying statistics:

1. Data is collected everywhere and requires statistical knowledge to do useful information,

2. Statistical methods are used to make professional and personal decisions,

3. Regardless of your career, you will need knowledge of statistics to understand the world and be knowledgeable in your career. Understanding statistics and statistical methods will help you make better personal and professional solutions.

Statistics are more than just the presentation of numerical information. Statistics is the collection and processing of information to create a conversation, stimulate additional questions and provide a basis for decision making.