ANNOTATION

INTERNATIONAL EUROPEAN UNIVERSITY

BUSINESS ARS EST

IEU
INTERNATIONAL EUROPEAN UNIVERSITY

EUROPEAN SCHOOL OF BUSINESS

Basics of Big Data management
EP « Computer Science and Technology»

2024

ANNOTATION

1	Course and educational program name

Basics of Big Data management (elective discipline)
EP « Computer Science and Technology »

2	Course description

The subject of study of the educational discipline "Fundamentals of Big Data Management" is modern approaches, tools and methods of processing structured and unstructured large data sets.

3	Study prerequisites

The educational discipline is related to the disciplines "Higher and Applied Mathematics", Probability Theory and Mathematical Statistics", "Algorithms and Data Structures", "Organization of Databases and Knowledge".

3	Department

Department of Information Technology

4	Course objectives

The purpose of teaching the educational discipline "Fundamentals of Big Data Management" is to provide students with thorough theoretical training, knowledge of the main methodological principles and familiarization with software tools used in the activities of software developers, providing theoretical and engineering training for specialists in the field of big data analysis.

5	The role of academic discipline in achieving Program learning outcomes (PLO)

PLO1. To analyze, intentionally search for and select information and reference resources and knowledge required to solve professional problems, taking into account current scientific and technological achievements.

PLO6. Ability to select and use the appropriate methodology for developing information systems and technologies.

PLO13. To know and apply methods for developing algorithms, data structures, and knowledge.

PLO14. To understand the principles of modeling organizational and technical systems and operations; to use methods of operations research, and to solve single- and multi-criteria optimization problems in linear, integer, nonlinear, and stochastic programming

PLO18. Know and be able to apply information technologies for data processing, storage and transmission.