ADVANCED ANALYTICS – BIG DATA
Master studies

Advanced knowledge and competencies in the area of data acquisition from variety of sources and their analysis.

SZKOŁA GŁÓWNA HANDLOWA
W WARSZAWIE
WARSAW SCHOOL OF ECONOMICS

ADVANCED KNOWLEDGE AND COMPETENCIES

Master's Programme in Advanced Analytics – Big Data provides students with the advanced knowledge and competencies in the area of data acquisition from variety of sources and their analysis.

A student graduating from the programme is able to be employed as a specialist in advanced data analysis in manufacturing companies, banks, insurance and telecommunications companies, public administration and research centers specializing in advanced data analytics. The studies also prepare students to conduct research and to take up the third-cycle studies.

Master in Advanced Analytics – Big Data is 2-year programme providing 120 ECTS points.

CORE COURSES:

Business Law
History of Economic Thought

MAJOR COURSES:

Advanced Macroeconomics I
Advanced Optimization Methods
Basic and Advanced Programming in SAS with Statistics
Big Data
Data Mining Basic and Advanced with Text Mining
Data Warehouses II or Graph Theory and Social Networks
Databases Build and Exploitation
Event History Analysis with SAS
Institutional Economics
Labour Economics
Logistic Regression with SAS
Querrying, Data Presentation, Data Visualisation and Reporting
Statistical Learning Methods

COURSES TO BE CHOSEN:

Actuarial Statistics and Risk Theory
Advanced Simulation Modelling
Advanced Statistical Analysis Methods
Advanced Statistical Analysis Methods with SAS
Algebra and Mathematical Analysis
Applied Econometrics
Artificial Intelligence
Bayesian Econometrics
Business Intelligence
Credit Scoring and SAS Macro-programming
Credit Scoring in SAS Enterprise Miner
Database Systems II
Decision Theory
Development of Business Applications
Econometrics of Panel Data
Financial Econometrics II
Integrated Management Information Systems
Mathematical Logic
Mathematical Statistics I
Methods of Statistical Analysis II
Microeconometrics
Multi-agent Modelling
Multivariate Statistical Analysis using SAS
Nonlinear Econometric Models
Numerical Methods
Probability Theory and Stochastic Processes
Statistical Methods of Multivariate Comparative Analysis
Time Series Econometrics
Text Mining

CEMS CEEMAN member of EUA PIM Partnership in International Management