Co-funded by the
Erasmus+ Programme
of the European Union

Advanced Data Analytics
ADA

University of Belgrade, Serbia

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1.	Development of a new program in Advance Data Analytics in Business
1.1	Analysis of best practices and comparative analysis
1.2	Development of learning outcomes and competences
1.3	Development of program, modules, syllabi of all courses and ECTS

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- 1.1 Analysis of best practices and comparative analysis
  - analyzed about 30 different study programs in data analysis
  - discussed the new study program with UB officials
  - attended a data-analysis workshop in Belgrade
  - developed a sound understanding of what should be covered
  - collected best practices from other master programs at UB
  - introduced (informally) the new study program to potential students

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- 1.2 Development of learning outcomes and competencies
  - outcomes
    - improved theoretical and practical knowledge of quantitative disciplines (primarily math and statistics) required for the students who want to conduct data analysis in solving practical problems
    - mastery of necessary computing and programming skills as prerequisites for working on practical problems that involve data analytics
    - experience with practical software tools related to programming, data analysis, data visualization and the like in working on practical problems
    - practical experience in applying the above mentioned skillset and toolset in working on real-world problems, both in the individual engagement and teamwork, by involving students in current and new practical and research projects

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- 1.2 Development of learning outcomes and competences
  - competences
    - creative abilities and mastery of specific practical skills necessary to perform professional activities of an expert in data analytics
    - ability to work in real-world environments, demonstrating a high-level expertise in working with large volumes of data being created in different domains
    - independent work in analyzing datasets of different complexity in selected domains, with advanced use of current data analysis tools and technologies
    - involvement in various interdisciplinary working teams where data analysis skills in different disciplines and mastery of current data analysis tools and technologies are expected

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- 1.3 Development of program, modules, syllabi of all courses and ECTS
  - developed program and syllabi of all courses and ECTS
    - 3 semesters, 90 ECTS, 8 courses (2 required, 6/15 elective)
    - mandatory internship
    - qualification / term paper
    - master thesis
  - no modules – students are offered different learning paths through selection of elective courses that best fit their needs (best practise!)
  - program specifics
    - some focus on technology
    - openness for students with different backgrounds
    - application in social sciences and medical sciences

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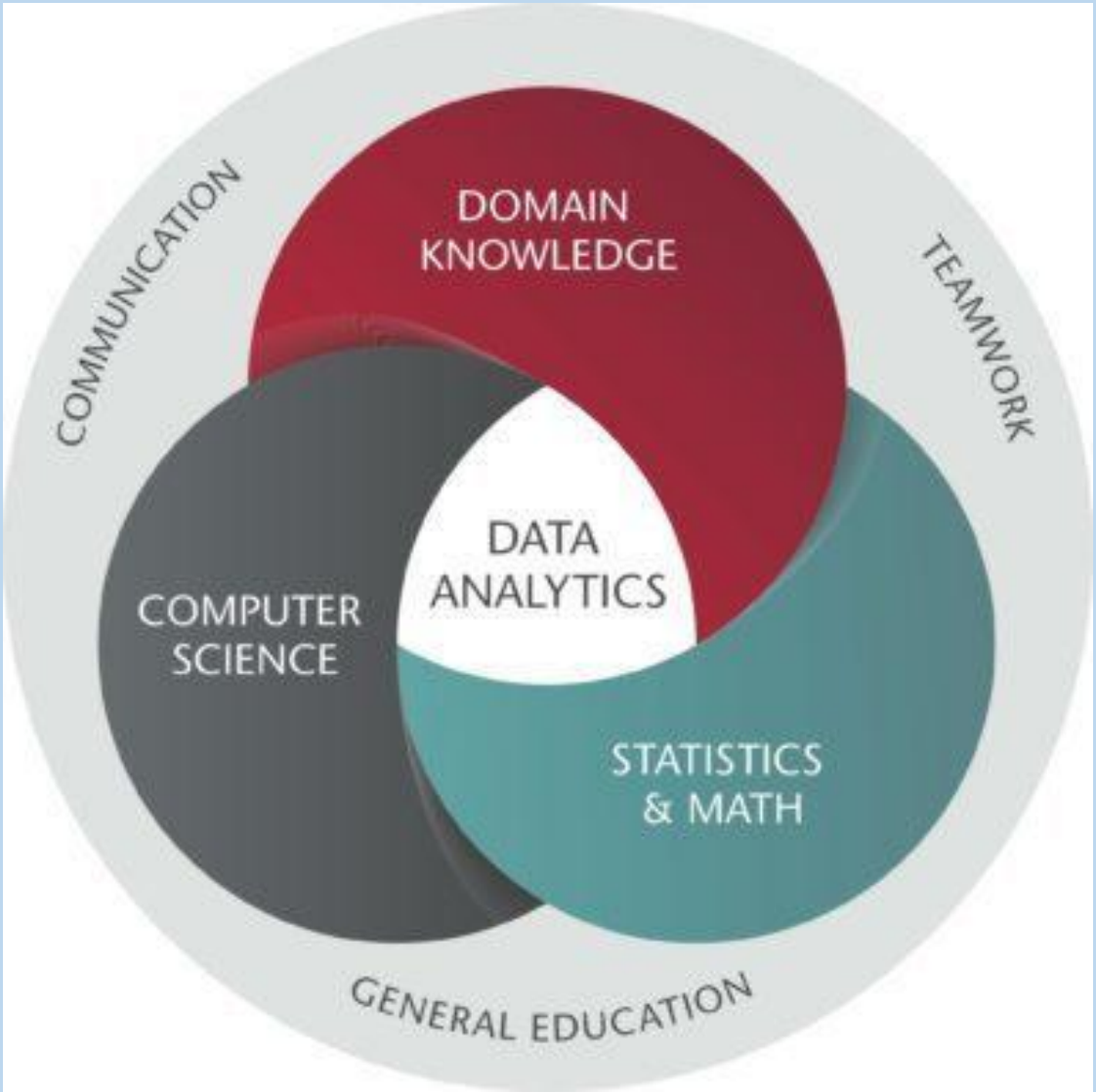
DOMAIN KNOWLEDGE
COMMUNICATION
TEAMWORK
DATA ANALYTICS
COMPUTER SCIENCE
STATISTICS & MATH
GENERAL EDUCATION

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- Current version of the program structure
- Almost ready for submitting the program documentation to the national accreditation body
  - major impediments: administrative procedures
  - some administrative documents still lacking

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- 2.1 Purchase of equipment
  - equipment specification completed
  - equipment distribution arranged