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|                   | <b>Data Analytics</b>   |
| Description       | <ul style="list-style-type: none"> <li>• Data sources <ul style="list-style-type: none"> <li>○ Data categories (statistics, structured, unstructured, big data, etc.).</li> </ul> </li> <li>• Collection, pre-processing and management of data in different formats, CSV, XML, JSON etc.</li> <li>• Data representation based on vector model - Text transformation.</li> <li>• Structured data management (arrays, vectors, databases, accessibility, data sharing, data governance, ethics and privacy).</li> <li>• Data analysis – Relevance and similarity -Elements of statistical analysis – Data quality</li> <li>• Presentation, visualization and exploitation of data</li> <li>• Functional utilization of data (from the end user's perspective)</li> <li>• Applications and examples of data collection, processing, presentation and analysis in the humanities.</li> </ul> |
| Learning Outcomes | <p>After the course the student will be able to</p> <ul style="list-style-type: none"> <li>• Understand the concept of data and data analysis in the Humanities</li> <li>• Represent and organize data</li> <li>• Select appropriate models for their analysis</li> <li>• Recognize patterns in the data and draw useful conclusions from their processing</li> <li>• Manage large volumes of data</li> <li>• Use effective methods of data utilization</li> </ul>  |