Storage Technologies

Workload (h): 144 **Presence** (h + CH): 64 (4) **Self-Study** (h): 80

Contents: The course contains topics about technologies, frameworks and products for Big Data storage.

Background and relations to other courses: Basics of RDBMS.

Main topics and learning objectives:

Themes	Learning objectives
Basic principles of BigData storage	To know and understand the current trends in BigData storage technologies (In memory, NoSQL, SQL-like, GraphDb).
NoSQL principles, engines	To know differences between NoSQL and RDBMS solutions.
SQL-like implementations	To be able to use SQL-like tools.
Graph databases, technologies	To understand graph database working principles.

Assessment:

Formative: 5 practice tasks, in interaction with lecturer and tutor during learning period. On site, skype, email are preferable.

Summative:

Number and Type; Connection to Course	Duration	Part of final mark in %
Pass Test (5 tasks)	90 min	100%

Learning outcomes:

Academic: To know the current and perspective products to manage large datasets, to be able to choose the technology for a specific applied task. To be able and to get the skill of using in practice some of the tools to create databases and work with them using cloud technologies and BigData approach.

Prerequisites for Credit Points: The credit points will be granted when the course has been successfully completed, i.e. all parts of the examination are passed.