

| Big Data and Analytics | | | | | |
|-------------------------------|--|---------------------------------------|--------------------------------------|----------------------------------|-----------------|
| Course Code | Student Workload | Credits (according to ECTS) | Semester | Frequency | Duration |
| CIS61025 | 60 hours | 3 | 5 or 7 | each odd-semester | 16 meetings |
| 1 | Types of courses <i>Elective</i> | contact hours 42 hours | independent study 18 hours | class size 40 students | |
| 2 | Prerequisites for participation Have completed Introduction to Big Data course (CSD60013) | | | | |
| 3 | Learning outcomes IS-ILO-4 Graduates can develop professional careers in computer science based on quality aspects, data-driven decision making, be responsible, and make continuous improvements. IS-ILO-5 Graduates are expected to understand the ideas of the principles of morality, ethics and values in the IS fields and also to have the ability to apply ethical principles in decision-making to support community and environmental welfare. | | | | |
| 4 | Subject aims <ul style="list-style-type: none"> • Students are able to apply the knowledge acquired to formulate big data architecture and analytics that can describe conditions of organizations in the big data ecosystem. • Students are able to apply and demonstrate understanding of the material for development of big data and analytics solutions that can meet organizational data analysis needs in the form of a dashboard (visualization) or data reporting. • Students are able to demonstrate ability to design and fulfil needs, descriptive and predictive analysis for organizations through development and operation of the information system platform on big data ecosystem. | | | | |
| 5 | Teaching methods lectures, case study, class discussion, presentation | | | | |
| 6 | Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment | | | | |
| 7 | This module is used in the following degree programs as well | | | | |
| 8 | Responsibility for module | | | | |
| 9 | Other information Big Data Analytics, 1st Edition. Editor(s): Govindaraju, Raghavan, and Rao. Release Date: 07 Jul 2015. Imprint: Elsevier | | | | |

| |
|---|
| <p>Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data. Editor: EMC Education Services. January 2015</p> |
|---|

| |
|--|
| <p>Judith S. Hurwitz, et. al. 2013. Big Data for Dummies, John Wiley & Sons, Inc., Hoboken, New Jersey</p> |
|--|