Big Data Analysis

Course Code	Student Workload	Credits (according to ECTS)	Semester	Frequency	Duration
CIF62061	90 hours	4,5	Semester 6	each even-semester	16 meetings

1	Types of courses	contact hours	independent study	class size
	Elective(Informatics Engineering level)	63 hours	27 hours	40 students

2 Prerequisites for participation

Have completed Introduction to Machine Learning course

3 Learning outcomes

- IF-ILO-3

Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements.

4 Subject aims

- Students are able to clarify the concept of Big Data, Big Data analysis, Big Data analysis live cycle
- Students are able to understand and apply basic analytics, statistics, and data visualization
- Students are able to understand and apply administration process and the Big Data tools
- Students are able to understand and apply the process in Big Data analysis
- Students are able to understand and apply case studies with a Big Data approach

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

Informatics Engineering

8 Responsibility for module

9 Other information

1. EMC Education Services. (2015) Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data. Wiley
2. Govindaraju, Raghavan, and Rao (2015) Big Data Analytics, 1st Edition. Elsevier.
3. Prajapati, V. (2013) Big data analytics with R and Hadoop. Packt Publishing Ltd.