



Course title	Business Intelligence
Institute/Division	Faculty of Computer Science and Mathematics/ Department of Computer Science
Course code	F-1.BI
Erasmus subject code	11.3 Informatics, Computer Science
Number of contact hours**	45 lecture hours (45h)
Course duration	1 semester (Spring)
ECTS credits	6
Course description (max 100 words)	This course introduces the fundamental concepts and practical tools used in Business Intelligence. Students learn the theoretical foundations of BI, including key elements such as dimensions, metrics, and facts, as well as principles of designing and building data structures for analytical purposes. The course also covers the basics of data modeling and organizing information for decision support. In the practical part, students work with Power BI to create data models, build dashboards, and visualize business data to support managerial decision-making.
Literature	<ul style="list-style-type: none"><input type="checkbox"/> Business Intelligence Guidebook: From Data Integration to Analytics – Rick Sherman. Morgan Kaufmann, 2015.<input type="checkbox"/> Fundamentals of Business Intelligence – Wilfried Grossmann, Stéphane Rinderle-Ma. Springer, 2015.
Course type/organization	Lectures and computer laboratory
Assessment method	Projects and final test
Prerequisites	Basics of programming and databases
Primary target group	Computer Science students
Contact person	Pawel Jarosz
Remarks	

*please insert one of the following codes:

- 11.0 Mathematics, Informatics
- 11.1 Mathematics
- 11.2 Statistics
- 11.3 Informatics, Computer Science
- 11.4 Artificial Intelligence
- 11.5 Actuarial Science
- 11.9 Others Mathematics, Informatics

**1 lecture hour=45 minutes