

Module: IS 602 Business Intelligence and Business Analytics Systems**Contents:**

Business agility is one of the key determinants of business success. It describes the ability of an organization's executives to make successful business decisions in a both effective and efficient manner. In most modern enterprises, Business Intelligence and Management Support Systems represent a core enabler of managerial decision making in that they are supplying up-to-date and accurate information about all relevant aspects of a company's planning and operations: from stock levels to sales volumes, from process cycle times to key indicators of corporate performance.

As an important category of Enterprise Systems, these applications target improving business decision making and enhancing enterprise-wide transparency. The aim of this module is to introduce theoretical foundations, concepts, tools, and current practice of Business Intelligence and Management Support Systems. Moreover, students are being introduced to decision making at various levels and how various forms of Business Intelligence and Management Support Systems can support them in their work. The module is complemented with a case study. It challenges the students to analyze and propose solutions for a specific enterprise challenge with regards to system-based decision making and enterprise-wide transparency.

Learning outcomes:

By the end of the module students will

- get comprehensive overview of key capabilities of Business Intelligence and Management Support Systems,
- understand theoretical foundations underlying these systems,
- get practically oriented view by analyzing and proposing solutions for a selected enterprise challenge.

Prerequisites:

Formal: -

Recommended: IS 540 (Management of Enterprise Systems)

Obligatory registration: no

Further Information on the registration: -

Courses	Hours per week	Self-study
Lecture	1	7
Case study	-	4
ECTS Modul insgesamt		6
Form of assessment	Assignments and written exam (60 min.)	
Preliminary course work	-	
Lecturer/Person in charge	Prof. Dr. Christoph Sandbrink	
Duration of module	1 semester	
Offering	Fall semester	
Language	English	
Program-specific educational goals	LG 1, LG 2, LG 3, LG 4	
Grade	graded	
Range of application	M.Sc. MMM, M.Sc. MMBR, M.Sc. Bus. Edu., M.Sc. Bus. Inf., M.Sc. Econ.	