

(Table 5.2) Course unit description

Study program: Informatics			
Type and level of studies: Undergraduate Academic Studies			
Course unit: BUSINESS INTELLIGENCE (BI)			
Teacher in charge: Stefanovic Nenad			
Language of instruction (<i>English or other foreign language</i>) English			
ECTS: 7			
Prerequisites: no			
Semester (<i>Winter Semester or Summer Semester</i>) Winter			
Course unit objective Master the basic concepts, methods, techniques and tools related to business intelligence.			
Learning outcomes of Course unit Students will acquire the necessary theoretical and practical knowledge and skills needed for the design, development and deployment of business intelligence systems. The students will acquire knowledge and skills related to business analysis, data modelling, Data Warehousing, On-Line Analytical Processing, Performance Measurement, Reporting, Data Mining and self-service BI. Acquired knowledge and skills can be used for working on variety of BI projects, as well as for taking the official international exams in these domains.			
Course unit contents <i>Theoretical classes</i> Basics of BI; Business analysis; Data Warehousing, OLAP, Dimensional modelling, Performance Tunning, Query languages (MDX, DAX), Performance Management (Key Performance Indicators – KPI, Balanced Scorecard), Reporting, Data Mining, BI portals, Self-service BI. <i>Practical classes</i> Each theoretical topic has its corresponding exercises and homework, where students work with real data.			
Literature 1. Brian Larson, Delivering Business Intelligence with Microsoft SQL Server 2012, McGraw-Hill, 2012. 2. Randal Root, Caryn Mason, Pro SQL Server 2012 BI Solutions, McGraw-Hill, 2012. 3. Christian Mehrwald, Sabine Morlock, IData Warehousing with SAP BW7 BI in SAP Netweaver, dpunkt.verlag, 2012. 4. Norbert Egger, Fiechter, Kramer, Sawicki, Straub, SAP Business Intelligence, Galileo Press, 2007. 5. Haroun Khan, Adrian Ward, Oracle Business Intelligence Enterprise Edition 11g: a Hands-On Tutorial, Packt Publishing, 2012.			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 2	Other forms of classes: 1	
Teaching methods: - Blended learning - Combination of classical and e-learning. - Interactive teaching with multimedia content. - Classroom and online lectures. - Usage of the Office 365 platform for document and content management, video conferencing, social networking and collaboration.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	4	oral examination	20
Practical classes		written examination	30
Tests	46	Project	
Project			
Other			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	

8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	0-50	Failing