

H7BID: Business Intelligence and Data Warehousing I

Module Code:	H7BID
Long Title	Business Intelligence and Data Warehousing I APPROVED
Title	Business Intelligence and Data Warehousing I
Module Level:	LEVEL 7
EQF Level:	6
EHEA Level:	First Cycle
Credits:	5
Module Coordinator:	Simon Caton
Module Author:	Simon Caton
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	
Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Generalise enterprise data in order to produce organised business reports.
LO2	Identify and distinguish compositions of enterprise data that yield value through business intelligence approaches
LO3	Evaluate and apply OLAP methodologies and techniques with respect to inferring business value from enterprise data
LO4	Evaluate vendor solutions for business intelligence in the context of data warehousing.
Dependencies	
Module Recommendations	
No recommendations listed	
Co-requisite Modules	
No Co-requisite modules listed	
Entry requirements	

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Module Content & Assessment			
Indicative Content			
Foundations of Business Intelligence and Data Warehousing • Defining Business Intelligence and its Application Areas. • Data Warehousing Fundamentals: Inmon's and Kimbel's Approaches. • Data Warehouse Architectures (e.g. Enterprise Data Warehouse, Federated, Enterprise Service Bus, etc.) • Data Models Kimbel's Front and Back Room Analogy			
Analytics for Business Intelligence • Online Analytical Processing (OLAP). • OLAP. • Cube Building. • OLAP operations (e.g. Slice, Dice, Roll Up, Drill Down). • Vendor Solutions and Tools for OLAP. • Foundations of Data Mining for Business Intelligence.			
Visualisation and Reporting • Business Reporting. • End User Dashboards. • Deriving Value from Business Data Reporting Tools and Vendor Solutions.			
Assessment Breakdown			%
Coursework			40.00%
End of Module Assessment			60.00%
Assessments			
Full Time			
Coursework			
Assessment Type:	Continuous Assessment (0200)	% of total:	40
Assessment Date:	n/a	Outcome addressed:	3,4
Non-Marked:	No		
Assessment Description: Sample Assessments: Learners will apply practical skills developed throughout the module to undertake and simulate business intelligence applications and/or case studies. Learners may also be required to develop and evaluate reporting methods.			
End of Module Assessment			
Assessment Type:	Terminal Exam	% of total:	60
Assessment Date:	End-of-Semester	Outcome addressed:	1,2,3,4
Non-Marked:	No		
Assessment Description: End-of-Semester Final Examination			
No Workplace Assessment			
Reassessment Requirement			
Repeat examination <i>Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.</i>			

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Module Workload				
Module Target Workload Hours 0 Hours				
Workload: Full Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	2	Every Week	2.00
Tutorial	No Description	1	Every Week	1.00
Independent Learning	No Description	7.5	Every Week	7.50
Total Weekly Contact Hours				3.00
Workload: Part Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	2	Every Week	2.00
Practical	No Description	2	Every Week	2.00
Independent Learning	No Description	7.5	Every Week	7.50
Total Weekly Contact Hours				4.00

Module Resources	
<i>Recommended Book Resources</i>	
Cindi Howson. (2013), Successful Business Intelligence: Unlock the Value of BI & Big Data, 2. McGraw-Hill Osborne Media, p.320, [ISBN: 9780071809184]. Foster Provost and Tom Fawcett. (2013), Data Science for Business: What you need to know about data mining and data-analytic thinking, O'Reilly Media, p.414, [ISBN: 9781449361327].	
<i>Supplementary Book Resources</i>	
Eric Siegel. (2013), Predictive Analytics, Wiley, p.288, [ISBN: 9781118356852]. W. H. Inmon. (2005), Building the data warehouse, 4. Wiley, Indianapolis, Ind., p.576, [ISBN: 9780764599446]. Ralph Kimball... [et al.]. (2008), The data warehouse lifecycle toolkit, Wiley Pub., Indianapolis, IN, [ISBN: 9780470149775].	
<i>This module does not have any article/paper resources</i>	
<i>Other Resources</i>	
[Website], Microsoft. Multi-dimensional modelling tutorial, http://msdn.microsoft.com/en-us/library/ms170208.aspx	
Discussion Note:	