# 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:		on Caton				
Module Author:		Simon Caton				
Departments:		School of Computing				
Specifications of the qualifications and experience required of staff						
Learning Ou	tcomes					
On successful completion of this module the learner will be able to:						
#	Learning Outcome	Description				
LO1	Generalise enterprise	e data in order to produce organised business reports.				
LO2	Identify and distingui	inguish compositions of enterprise data that yield value through business intelligence approaches				
LO3	Evaluate and apply 0	nd apply OLAP methodologies and techniques with respect to inferring business value from enterprise data				
LO4	Evaluate vendor solu	utions for business intelligence in the context of data warehousing.				
Dependencies						
Module Recommendations						
No recommendations listed						
Co-requisite Modules						
No Co-requisite modules listed						
Entry requir	ements					

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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**

Assessment Type:

Continuous Assessment (0200)

% of total:

Outcome addressed:

Outcome addressed:

40 3,4

**Assessment Date:** 

**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

n/a

No

% of total:

60 1,2,3,4

Assessment Date: End-of-Semester

Non-Marked:

**Assessment Description:** End-of-Semester Final Examination

No Workplace Assessment

### Reassessment Requirement

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.

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Module Workload  Module Target Workload Hours 0 Hours  Workload: Full Time													
									Workload Type	Workload Description	Н	ours 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									
	ly Contact Hours	3.00											
Workload: Part Time													
Workload Type	Workload Description	Н	ours 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									
	ly Contact Hours	4.00											

# Module Resources

## Recommended Book Resources

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].

### Supplementary Book Resources

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].

This module does not have any article/paper resources

## Other Resources

[Website], Microsoft. Multi-dimensional modelling tutorial, http://msdn.microsoft.com/en-us/library/ ms170208.aspx

Discussion Note: