H8BI: Business Intelligence

Module Code:		H8BI					
Long Title		Business Intelligence APPROVED					
Title		Business Intelligence					
Module Level:		LEVEL 8					
EQF Level:		6					
EHEA Level:		irst Cycle					
Credits:		5					
Module Coordinator:		ophie Flanagan					
Module Author:		RLA LAHART					
Departments:		School of Computing					
Specifications of the qualifications and experience required of staff		degree in Computer Science. Experience Lecturing , work experience or projects in the specific domain					
Learning Outo	omes						
On successful	completion of this modu	ile the learner will be able to:					
#	Learning Outcome	Description					
LO1	Develop and build a other domains	solid understanding of the value and purpose of an implementation of Business Intelligence technologies and strategies within industry and					
LO2	Recognize and evalu	ate the theoretical and practical requirements for the implementation of strategic decision supporting Business Intelligence technologies					
LO3	Comprehend and co	ntrast the technological foundational architectures supporting BI systems and workflows					
LO4	Build and evaluate a the ability to become	Bl supportive platform through data collection and preparation with supporting complex visualization tools , reports and dashboards. with proficient in storytelling of data, addressing audiences in an industry context and build upon key soft skills of communication in a BI role.					
LO5	Discover, discuss an	nd critique recent and cutting edge BI and visualization technologies for both current and future implementations					
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						
Concept of BI ○ Historical Context ○ Business Intelligence through Analytics ○ The Value of Correlation ○ Non-Trivial BI						
Informed Business Decision Making with BI ○ Enterprise Strategic Planning ○ Gaining Competitive Edge ○ Securing Longevity through BI ○ Decision Patterns						
Benefits of BI ◦ Real World Scenarios ◦ Positive Case Studies of BI ◦ Negative Case Studies of BI ◦ Best Practices and Standard	is					
Technologies of BI ○ Data warehousing and Data Marts ○ Business Intelligence ○ Data Mining ○ Online Analytical Process ○ Dashboards / Visualizations						
BI Application Framework ○ PowerBI ○ Tableau & Tableau Prep ○ Dynamics ○ ClickSense						
BI and the Cloud ○ Altrex ○ Apache Druid ○ Snowflake ○ Crisp DM						
Connecting to Data ○ API Implementations ○ Middle-ware Supporting BI ○ Dynamic Sources ○ Text and Sentiment Analysis ○ Real Time BI						
Data Preparation ○ Effectively Cleaning Data ○ T in ETL ○ Dealing with Ambiguity ○ Process Automation ○ Tools for Cleaning						
Future Implementations and Technologies ◦ VR Virtual Reality ◦ AR Augmented Reality ◦ Machine Learning AI ◦ Context Aware Applications ◦ Online Analyt	cal Process RPA Robotic Process Automation					
Effective BI ○ Dashboards ○ Reports / Stories ○ Design Thinking ○ Data Presentations ○ Soft-skills & BI						
Assessment Breakdown	%					
Coursework	100.00%					

Full Time Coursework Assessment Type: CA 1 % of total: 20 Assessment Date: n/a Outcome addressed: 1,2,3 Non-Marked: No Assessment Description: Theory Based Assessment : Addressing the fundamental topics up to and including topic four, will be a timed assessment encompassing 20-30 questions CA 2 % of total: 80 Assessment Type: Assessment Date: n/a Outcome addressed: 3,4,5 Non-Marked: No Assessment Description: Group Project Based Encompassing the development lifecycle of an industry based BI solution, including but not limited to ETL, Reporting, visualization composition and CRM implementation. Students will also be assessed on storytelling of Data Visualizations and overall effective presentation skills. No End of Module Assessment No Workplace Assessment **Reassessment Requirement** Coursework Only This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

Reassessment Description

The learner will be given the opportunity to repeat any of the above assessments which have been failed, this will be a repeat assessment through coursework alone, no written repeat exam will be provided. An opportunity to repeat will be at the end of the semester.

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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	Online / Classroom Activities		Per Semester	2.00			
Tutorial	Practical & Tutorial Activities		Per Semester	1.00			
Independent Learning	Independent Learning Activities		Per Semester	7.42			
Total Weekly Contact Hours							

Module Resources

Recommended Book Resources

Vivek Kale. (2017), Enhancing Enterprise Intelligence, 1st. CRC Press, united states of America, p.378, [ISBN: 9781498705974].

Rick Sherman. (2014), Business Intelligence Guidebook, Morgan Kaufmann, p.550, [ISBN: 9780124114616].

Supplementary Book Resources

Efraim Turban. (2007), Decision Support and Business Intelligence Systems, Prentice Hall, p.772, [ISBN: 0131986600].

This module does not have any article/paper resources

Other Resources

[website], Microsoft. Microsoft Power BI Self-paced Learning, Microsoft, https://docs.microsoft.com/en-us/power-b i/guided-learning/

[website], Tableau. Tableau - Guided Learning, Tableau, https://www.tableau.com/learn_

[website], Hubspot. Hubspot, Hubspot, https://www.hubspot.com

[website], Microsoft. Microsoft Dynamics 365, Microsoft, https://trials.dynamics.com/____

[website], Salesforce. Salesforce CRM, Salesforce, https://www.salesforce.com

Discussion Note: