Module Documentation

COMP08035

Business Intelligence

COMP08035
Business Intelligence

Short Title	Business Intelligence				
Full Title	Business Intelligence				
Attendance	N/A		Discipline	481 COMPUTER SCIENCE	
Coordinator	Phelim Murnion		Department	Business	
Official Code	COMP08035	NFQ Level	08	ECTS Credit	05

Module Description

Data warehousing and Business Intelligence systems

Learning Outcomes

On completion of this module the learner will/should be able to

1. Create and query a data warehouse
2. Apply Business Intelligence (BI) project management techniques
3. Analyse business problems utilising BI approaches
4. Deploy BI solutions to support decision-making and innovation

Teaching and Learning Strategies

Teaching and learning methods will involve a combination of lectures, practical laboratory work and case-study analysis. Students will be encouraged to participate in the classroom and to apply principles to actual problems

Assessment Strategies

Assessment will involve a combination of individual continuous assessments and a group project

Repeat Assessment Procedures

Autumn exam

Module Dependencies

Prerequisite Modules

None

Corequisite Modules

None

Incompatible Modules

None

Indicative Syllabus

1. Data warehousing for decision support 30%

a. Data warehousing principles

b. Data warehouse design and development

c. Data tabulation and cube construction

d. Decision support with data warehousing

2. Analytical techniques 30%

a. Time Series models

b. Regression and generalised linear models

c. Predicting catgorical and continuous values

3. Data Mining project management 20%

a. Business case analysis

b. Data Preparation and model development

c. Model evaluation

d. Deployment

4. Data Mining case studies 20%

CourseWork / Assessment Breakdown

CourseWork / Continuous Assessment	100 %

Coursework Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Practical test	1,2	30	Week 6
Project	1,2,3,4	70	Week 13

End Exam Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week

ACCS Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Open Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Distance Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Part Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Full Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
Lecture	Lecture Theatre	Lecture	1	Weekly	1.00
Seminar	Computer Laboratory	Seminar	1	Weekly	1.00
Laboratory Practical	Computer Laboratory	Practical	1	Weekly	1.00

Total Average Weekly Learner Workload 3.00 Hours

Online Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Module Resources

Module Book Resources

None

Module Alternate Book Resources

None

Module Other Resources

None

Module URLs

None

Additional Information

None

ISBN BookList

Book Details

Galit Shmueli 2010 *Data Mining for Business Intelligence: Concepts, Techniques, and Applications in Microsoft Office Excel with XLMiner* Wiley
ISBN-10 0470526823 ISBN-13 9780470526828

Approval Information

School Approval by	Carmel Brennan on 02-04-2015
Academic Council on	02-04-2015

Programme Membership

Code	Intake Year	Programme Title
GA_BBISG_H08	201500	Bachelor of Science (Honours) in Business Information Systems