

Module Documentation



COMP08025

Information Systems Development

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COMP08025 Information Systems Development

Short Title	Info Systems Development		
Full Title	Information Systems Development		
Attendance	N/A	Discipline	481 COMPUTER SCIENCE
Coordinator	Owen Foley	Department	Business
Official Code	COMP08025	NFQ Level	08
		ECTS Credit	05

Module Description

This module will provide the students with the necessary skills to understand design and develop an Information System to specification. The applied techniques of the development lifecycle are demonstrated and practiced on the sample project. The approaches and techniques of systems analysis life cycles are also completed, culminating in a developed Information System.

Learning Outcomes

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

1. Develop an Information System as per a structured development methodology.
2. Develop an integral system architecture.
3. Develop robust programme modules.
4. Develop appropriate user interfaces.
5. Develop a post relational (NOSQL) information system.

Teaching and Learning Strategies

The module is 100% CA and follows the lifecycle of a sample project in class. The applied techniques of the development lifecycle are demonstrated and practiced on the sample project. The approaches and techniques of systems development life cycles are also completed. The student will develop Information Systems (relational and post relational) during the module.

Assessment Strategies

The module is assessed by assessing the quality of the information system developed. Systems quality, complexity and originality are among the areas examined. An emphasis is placed on a structured working system that is successfully implemented to specification.

Repeat Assessment Procedures

The repeat assessment requires the student to complete a project in their own time.

Module Dependencies

Prerequisite Modules

None

Corequisite Modules

None

Incompatible Modules

None

Indicative Syllabus

Systems Design Methods 50%

Introduction to the Requirement for Systems Design.

Application Modelling

Architecture Modelling

Database Design

Output Design

Prototyping

Input Design

Input Design and Prototyping

Interfaces 15%

Application Interface Design.

Application Interface Prototyping.

Object Oriented Design 15%

Object Oriented Design

Unified Modelling Language (UML)

Beyond Systems Analysis and Design 20%

Systems Construction

Systems Implementation

Systems Operation

Systems Support

CourseWork / Assessment Breakdown

CourseWork / Continuous Assessment 100 %

Coursework Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Information Systems Dev Project	1,2,3,4,5	100	OnGoing

End Exam Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
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ACCS Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
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Total Average Weekly Learner Workload 0.00 Hours

Open Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
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Total Average Weekly Learner Workload 0.00 Hours

Distance Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
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Total Average Weekly Learner Workload 0.00 Hours

Part Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
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Total Average Weekly Learner Workload 0.00 Hours

Full Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
Laboratory Practical	Computer Laboratory	Labs	3	Weekly	3.00

Total Average Weekly Learner Workload 3.00 Hours

Online Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
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Total Average Weekly Learner Workload 0.00 Hours

Module Resources

Module Book Resources

REQUIRED READING

Title: Basic Information Systems Analysis and Design.

Authors: Chester & Athwell

Publisher: McGraw Hill

ISBN: 0-07-709784-X

RECOMMENDED READING:

Title: Systems Analysis and Design Sixth Edition (2005)

Authors: Kendall & Kendall

Publisher: Prentice Hall

ISBN: 0-13-127323

Title: Systems Analysis and Design - An Active Approach (2001)

Author: Marakas

Publisher: Prentice Hall

ISBN: 0-13-022515-0

Module Alternate Book Resources

None

Module Other Resources

None

Module URLs

<http://aisnet.org/>

Additional Information

None

ISBN BookList

Book Details

Kenneth E. Kendall 2013 *Systems Analysis and Design (9th Edition)* Prentice Hall
 ISBN-10 0133023443 ISBN-13 9780133023442

Pramod J. Sadalage 2012 *NoSQL Distilled: A Brief Guide to the Emerging World of Polyglot Persistence* Addison-Wesley Professional

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