SYST H2304: Information Systems I

Module Title:	Information Systems I
Language of Instruction:	English

Credits:	10

NFQ Level:	7

Module Delivered In	No Programmes

Teaching & Learning Strategies:	Lectures - communication of knowledge and ideas from the lecturer to the student. Problem Solving Exercises - student will work individually or as part of a team to resolve various computer application tasks/scenarios. Class Discussion/Debate - Students will be encouraged to actively participate in the class sessions which will develop their analytical and communication skills. E-Learning - It is envisaged that the module will be supported with on-line learning materials. Self-Direct Independent Learning - the emphasis on independent learning will develop a strong and autonomous work and learning practices. Group Work - students will develop strong team skills in group work projects. Project Work - Students will produce a professional standard project by applying the knowledge, skills and competencies learned during the course.

Module Aim:	The aim of this course is to introduce the student to Information Systems and their role in supporting strategies and tactics of a business in its endeavour to achieve a high level of success. Through exposure to up-to-date theory and practical examples, students will gain an understanding of the business use of Information Systems. These include global environment, Information Systems and the modern organisation, e-business, Information Systems that support organisations, Information Systems and decision making, planning for, acquiring and maintaining Information Systems and protecting information assets. In addition, students will learn a range of advanced features of Excel and will work on a project which requires integrating the advanced features of a number of computer applications.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Explain a range of issues relating to Information Systems in organisations, the digital economy on organisations and protecting information assets
LO2	Distinguish between various Organisational Information Systems and Management Information Systems
LO3	Explain a range of topics relating to the technologies in telecommunications and acquiring Information Systems
LO4	Demonstrate ability in a range of advanced features in Excel and produce a project which requires the students to integrate business and computer applications while using the advanced features of a range of applications

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.*
Computer applications

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Module Content & Assessment

Indicative Content
The modern organisation functioning in a global environment Business processes and business process management; Information Systems: concepts and definitions; The global web-based platform; Business Pressures, organisational responses and IT support
Information Systems and the Modern organisation Types of Information Systems; Competitive advantage and Strategic Information Systems; Managing Information resources
Electronic Commerce: Applications and issues Overview of E-Business and E-Commerce; Business-to-Consumer electronic commerce; Business-to-Business electronic commerce; Electronic payments; Ethical and legal issues in E-Business
Information Systems that support organisations Transaction Processing Systems; Functional Area Information Systems; Enterprise Resource Planning Systems
Managerial Support Systems Managers and decision making; Business Intelligence; Data Visualisation techniques; Intelligent Systems
Acquiring Information Systems Information Technology project management; Planning for and justifying IT applications; Strategies for acquiring IT applications; The Traditional Systems Development Life Cycle; Alternative methods and Tools for Systems development; Vendor and software selection
Protecting your information assets Introduction; Behavioural actions; computer based actions; Data Protection legislation
Basics of Telecommunications and Networks The telecommunications system; types of networks; network fundamentals
Stage 2 Excel Functions; Goalseek; Data Tables; Conditional formatting; Solver; Scenario manager; Pivot tables and charts; Auditing; IF statements; Vlookup and Hlookup; Data validation
Integrated project Develop a project requiring the integration of advanced features of Excel, Word and accounting and taxation tasks.

Assessment Breakdown	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Continuous Assessment

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Examination	Advanced Excel features	4	11.00	Week 13
Project	Integrated project solving business/accounting problems using advanced features of applications	4	9.00	Week 28
Other	may include MCQs, discussion forums, projects, group projects, essays, or examinations	1,2,3	20.00	Week 25

No Project

No Practical

End of Module Formal Examination

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Formal Exam	End-of-Semester Final Examination	1,2,3	60.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

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Module Workload

Workload: Full Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	Every Week	1.50
Independent Learning	Every Week	4.00
Laboratory	Every Week	1.50
	Total Hours	7.00

Workload: Part Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	Every Week	1.50
	Total Hours	1.50