Unit Outline (Higher Education)

Institute / School:	Institute of Innovation, Science & Sustainability
Unit Title:	Enterprise Systems
Unit ID:	ITECH5402
Credit Points:	15.00
Prerequisite(s):	(ITECH5100 or MREGC5001 or MREGC5101)
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	029999

Description of the Unit:

This unit provides an introduction to enterprise systems. This unit is essential to understand the cash-to-cash process in an organisation and the role of Information Technology in the form of an enterprise system (ES) to support such a process. This unit help students understand how the use of ES could provide various types of benefits to an organisation and help it to achieve strategic objectives. In addition, the unit aims to provide students to understand of the role of Artificial Intelligence and Blockchain Technology in the transformation of ES. The Topics may include business functions, business process design, process modelling, improvement and implementation, systems thinking, enterprise content management, ERP systems, ERP functional areas, ERP technology and architecture, ERP workflow tools and CRM.

Grade Scheme:	Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience

Placement Component:	No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of supplementary assessment.

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory					✔	
Intermediate						
Advanced						

Learning Outcomes:

Knowledge:

K1. Understand the importance of enterprise systems to support business strategy.

K2. Analyse the role of enterprise systems as part of the larger IT infrastructure of large scale organisations.

K3. Investigate conceptual architectures, frameworks and methodologies related to the design and implementation of enterprise information systems.

K4. Evaluate and compare various types of enterprise resource planning (ERP) software solutions and their application in global business contexts.

K5. Analyse the role of Artificial Intelligence in transformation of Enterprise systems

K6. Analyse Blockchain Technology integration with Enterprise Systems

Skills:

S1. Identify the key integration points between the different business disciplines supporting each business process cycle.

S2. Evaluate the main suppliers, products and application domains of enterprise wide packages.

S3. Utilise Enterprise Systems for executing business processes

S4. Coordinate process modelling, improvement, implementation and management approaches in relation to enterprise system environments.

S5. Critique contemporary IT industry practices/presentations related to Enterprise Systems, and relate them to professional standards and your own career aspirations

Application of knowledge and skills:

A1. Apply a systems thinking approach to problem solving and decision making to manage enterprise systems.

A2. Demonstrate communication skills to present a coordinated, coherent and independent exposition of knowledge and ideas in dealing with enterprise systems.

Unit Content:

Topics may include:
1. Business processes and workflows
2. Modern Enterprises and Technologies
3. Business Process Improvement and Transformation
4. Enterprise System Architecture and Integration
5. Enterprise Resource Planning (ERP)
6. Artificial Intelligence and ERP systems
7. Cloud ERP models
8. Enterprise Systems' Implementation Methodologies
9. Real-time ERP Technology
10. Supply Chain Management
11. Customer Relationship Management

12. IT and related industry activity and research developments in the local community, and around the globe
13. Blockchain Technology integration with Enterprise Systems

FEDTASKS

Federation University Federation recognises that students require key transferable employability skills to prepare them for their future workplace and society. FEDTASKS (**T**ransferable **A**ttributes **S**kills and **K**nowledge) provide a targeted focus on five key transferable Attributes, Skills, and Knowledge that are be embedded within curriculum, developed gradually towards successful measures and interlinked with cross-discipline and Co-operative Learning opportunities. *One or more FEDTASK, transferable Attributes, Skills or Knowledge must be evident in the specified learning outcomes and assessment for each FedUni Unit, and all must be directly assessed in each Course.*

FEDTASK attribute and descriptor		**Development and acquisition of FEDTASKS in the Unit**	
		Learning Outcomes (KSA)	**Assessment task (AT#)**
FEDTASK 1 Interpersonal	Students at this level will demonstrate an advanced ability in a range of contexts to effectively communicate, interact and work with others both individually and in groups. Students will be required to display high level skills in-person and/or online in: • Using and demonstrating a high level of verbal and non-verbal communication • Demonstrating a mastery of listening for meaning and influencing via active listening • Demonstrating and showing empathy for others • High order skills in negotiating and conflict resolution skills\\ • Demonstrating mastery of working respectfully in cross-cultural and diverse teams.	Not applicable	Not applicable
FEDTASK 2 Leadership	Students at this level will demonstrate a mastery in professional skills and behaviours in leading others. • Creating and sustaining a collegial environment • Demonstrating a high level of self -awareness and the ability to self-reflect and justify decisions • Inspiring and initiating opportunities to lead others • Making informed professional decisions • Demonstrating initiative in new professional situations.	Not applicable	Not applicable
FEDTASK 3 Critical Thinking and Creativity	Students at this level will demonstrate high level skills in working in complexity and ambiguity using the imagination to create new ideas. Students will be required to display skills in: • Reflecting critically to generate and consider complex ideas and concepts at an abstract level • Analysing complex and abstract ideas, concepts and information • Communicate alternative perspectives to justify complex ideas • Demonstrate a mastery of challenging conventional thinking to clarify complex concepts • Forming creative solutions in problem solving to new situations for further learning.	Not applicable	Not applicable
FEDTASK 4 Digital Literacy	Students at this level will demonstrate the ability to work competently across a wide range of tools, platforms and applications to achieve a range of tasks. Students will be required to display skills in: • Mastering, exploring, evaluating, managing, curating, organising and sharing digital information professionally • Collating, managing complex data, accessing and using digital data securely • Receiving and responding professionally to messages in a range of professional digital media • Contributing competently and professionally to digital teams and working groups • Participating at a high level in digital learning opportunities.	Not applicable	Not applicable

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the Unit	
		Learning Outcomes (KSA)	Assessment task (AT#)
FEDTASK 5 sustainable and Ethical Mindset	Students at this level will demonstrate a mastery of considering and assessing the consequences and impact of ideas and actions in enacting professional ethical and sustainable decisions. Students will be required to display skills in: • Demonstrate informed judgment making that considers the impact of devising complex solutions in ambiguous global economic environmental and societal contexts • Professionally committing to the promulgation of social responsibility • Demonstrate the ability to evaluate ethical, socially responsible and/or sustainable challenges and generating and articulating responses • Communicating lifelong, life-wide and life-deep learning to be open to the diverse professional others • Generating, leading and implementing required actions to foster sustainability in their professional and personal life	Not applicable	Not applicable

Learning Task and Assessment:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K3, K4, K5, K6, S1, S2, S4, S5, A1, A2	Develop collaboration and research skills in the analysis and practical application of Enterprise Systems	Group Assignment/Research Report	20%-30%
K2, K4, K5, K6, A2	Pitch findings of research (AT1) to relevant audience.	Presentation	15%-20%
K2, S3	Case study analysis and execution of business processes using SAP.	Tutorial and Laboratory Exercises	25%-30%
K1, K2, K3, K4, K5, K6, S1, S2, S3, S4, A1, A2	Consolidated test of theoretical and practical content aspects of the unit	End-of-semester test	25% - 30%

Adopted Reference Style:

APA ()

Refer to the library website for more information

Fed Cite - referencing tool