Module Specification

Module Summary Information

1	**Module Title**	Fundamentals of Business Enterprise Systems (SAP) – CDSE Lab (Cognitive Digital Systems Engineering Lab)
2	**Module Credits**	20
3	**Module Level**	4
4	**Module Code**	BUS4075

5	**Module Overview**
The module provides the theory and practical skills and knowledge for the fundamental of business enterprise systems within public and private sector organisations, providing the history of enterprise systems within businesses and the current transformation to digitalization and industry 4.0, addressing the challenges faced by businesses to adopt and provide agility through the use of enterprise systems solutions. The module will also provide the students with skills and introduction to SAP enterprise systems within the industry and how students can adopt SAP to address some of the business enterprise systems challenges. The module will be 100% coursework applying their knowledge and skills on the real industry based cases at the CDSE lab and learning through the process by engaging with the CDSE industry partners.	

6	**Indicative Content**

- Introduction to enterprise systems cycle from traditional to agile – As part of this module students will learn the history of business enterprise systems, the rational, benefits and challenges of adopting an enterprise systems within your business and how data should be used in the context of business enterprise systems to enhance their performance.
- Systems thinking and requirements modelling – The students will learn design-thinking methodology in practice to apply research, develop ideas, and develop conceptual business enterprise systems dynamic solutions based on real industrial case studies provide by the CDSE Lab (SAP). The students will also learn the techniques of data gathering for business enterprise requirements in this process and adopt the standards to visualise.
- Systems Engineering – The students will learn how to adopt systems engineering techniques to design, develop and implement enterprise systems for business's strategic, tactical and operational objectives. As part of this module the student will engage in applying SE technique on real industrial projects in the CDSE Lab (SAP) at University.

7	**Module Learning Outcomes** **On successful completion of the module, students will be able to:**	
	1	Demonstrate the understanding of business enterprise systems life cycle
	2	Compare appropriate techniques and approaches for identifying challenges within business enterprise systems
	3	Apply the use of business modelling tools to capture business enterprise systems requirements.
	4	Illustrate proficiency in the use of commercial software packages to deal with business challenges

8	Module Assessment		
Learning Outcome			
	Coursework	**Exam**	**In-Person**
1, 2, 3 & 4	X		

9	Breakdown Learning and Teaching Activities
Learning Activities	**Hours**
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	36
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	60
Private Study (PS) includes preparation for exams	104
Total Study Hours:	200