DEREE COLLEGE SYLLABUS FOR: CS 3247 KNOWLEDGE-BASED DECISION MAKING			
(Updated Spring 2021)	UK LEVEL: 5 UK CREDITS: 15 US CREDITS: 3/0/3		
PREREQUISITES:	CS 1070 Introduction to Information Systems CS 2179 Business Information Systems or		
CATALOG DESCRIPTION:	CS 3051 Business Driven Technology  Decision Making models; Knowledge Management Systems concepts; role of knowledge in business; organisational learning; knowledge management; decision making processes; Business Analytics; Artificial Intelligence.		
RATIONALE:	This module will introduce basic concepts in knowledge management and a variety of methods that can be used in individual and organizational decision-making and problem-solving. The focus is to capture knowledge to provide workable alternatives for managers rather than replacing judgment with an optimized solution. Taxonomies of Knowledge, Knowledge Processes Models and Knowledge Management systems are supplying the input for justifying sustainable strategies in businesses towards improved performance and competitive advantage. The new era of data driven decision making is analysed with reference to Business Analytics and Artificial Intelligence. Special focus is paid on Business Analytics tools and their use for Decision Making problems including Optimization, Data Mining and Key Performance Indicators. The module will deploy active learning and case studies to motivate students in recommending practical data-driven solutions for real-world decision-making problems in businesses and organizations. For this reason, open data repositories will be used and deployed together with Tableau platform.		
LEARNING OUTCOMES:	<ol> <li>As a result of taking this module, the student should be able to:</li> <li>Analyse how knowledge management can support decision making.</li> <li>Apply decision making and problem-solving methods for diversified management cases.</li> <li>Combine knowledge management strategies with decision making technologies to improve knowledge-based business performance.</li> </ol>		
METHOD OF TEACHING AND LEARNING:	<ul> <li>In congruence with the learning and teaching strategy of the College, the following tools/activities are used:</li> <li>Lectures and class discussions. Laboratory practical sessions and problem solving. Case studies and best practices discussion.</li> <li>Use of Tableau Platform and Open Data repositories</li> <li>Active Learning Strategies</li> <li>Office hours held by the instructor to provide further assistance to students.</li> </ul>		

	Use of the Blackboard Learn communication, by posting le timely announcements, and of	ecture no	tes, assignment instructions,	
ASSESSMENT:	Summative:			
	First Assessment - Midterm Examination	40%	Combination of answers to essay questions and case problems	
	Final Assessment - Project	60%	Analysis of a decision- making case utilising knowledge theories and concepts (2,200-2,400 words)	
	Formative:			
	Coursework: case problems		0%	
	The formative assessment(s) aim to p	prepare	students for the summative ones.	
	The First Assessment tests Learning The Final Assessment tests Learning			
	Students are required to resit failed a	assessm	ents in this module.	
	(Guidelines and assessment rubrics along with the course outline).	are distr	ibuted on the first day of classes	
INDICATIVE READING:	REQUIRED READING:			
READING.	Thomas Davenport, Jeanne Harris, "Competing on Analytics: Updated, with a New Introduction: The New Science of Winning", Harvard Business Review Press", Revised edition (August 29, 2017)			
	RECOMMENDED READING:			
	Kimiz Dalkir, "Knowledge Management in Theory and Practice, The MIT Press.			
	Ashok Jashapara. "Knowledge M Prentice Hall, latest edition, ISBN-13			
	Kimiz Dalkir. "Knowledge Managem latest edition, ISBN-13: 978-026201!		neory and Practice". MIT Press,	
	Donald Hislop. "Knowledge Mana Introduction". Oxford UP, latest edition	•	•	
	Ronald Maier. "Knowledge Mar Communication Technologies for Kn edition, ISBN-13: 978-3540714071.			

	Rajeev K. Bali, Nilmini Wickramasinghe and Brian Lehaney. "Knowledge Management Primer". Routledge, latest edition, ISBN-13: 978-0415992336.
	Irma Becerra-Fernandez and Rajiv Sabherwal. "Knowledge Management: Systems and Processes". Sharpe, latest edition, ISBN-13: 978-0765623515.
	Edna Pasher and Tuvya Ronen. "The Complete Guide to Knowledge Management". Wiley, latest edition, ISBN-13: 978-0470881293.
	Nonaka, I. and Takeuchi, H. (1995). The knowledge-creating company, New York, Oxford: Oxford University Press.
	Davenport, T. and Prusak, L. (1998). Working knowledge, Boston, MA: Harvard, Business School Press.
	Kevin C. Desouza and Scott Paquette. "Knowledge Management: An Introduction". Facet Publishing, latest edition, ISBN-13: 978-1856047357.
INDICATIVE	REQUIRED MATERIAL: N/A
MATERIAL: (e.g. audiovisual, digital material, etc.)	RECOMMENDED MATERIAL: N/A
COMMUNICATION REQUIREMENTS:	Use of appropriate academic conventions as applicable in oral and written communications.
SOFTWARE REQUIREMENTS:	<ul> <li>MS-Office 365 applications</li> <li>Groupware and/or document management software</li> <li>Tableau or another Business Analytics platform.</li> </ul>
WWW RESOURCES:	https://aisnet.org/ https://www.misq.org/ https://www.emeraldinsight.com/journal/jkm https://www.microsoft.com/en-us/research/research-area/artificial-intelligence/ https://www.tableau.com/ https://rapidminer.com/ https://rapidminer.com/ https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme_en
INDICATIVE CONTENT:	<ol> <li>Introduction to Knowledge Management</li> <li>The Concept of Knowledge and organisational learning</li> <li>Data Driven Decision Making</li> <li>Knowledge Process Models</li> <li>Knowledge Management Technologies</li> <li>Data Mining Methods</li> <li>Decision Making Models</li> <li>Analytics and KPIs</li> </ol>

- 10. Linking Knowledge Management Strategies to Business Strategies
- 11. Introduction to Business Analytics and Business Intelligence
- 12. Introduction to Artificial Intelligence
- 13. Managing Knowledge for Organizational Value
- 14. Technology driven Innovation
- 15. Research on Knowledge Management: Case Studies from European Funded Projects and Industry Products Horizon Europe.