

Course Syllabus Knowledge Management

August – December 2021

Level 10th

Professor

Felix Villanueva Paz



I. General Information

Course:	Knowledge Management		
Prerequisite:	Business Process Management	Code	01962
Preceding	-	Semester	2021-2
Credits:	3	Cycle	10 th
Weekly hours	4 hours	Modality	Synchronous Remote
Course type and College career	Mandatory: Information Technology and Systems Engineering	Coordinator	Joseph Ballón jballon@esan.edu.pe

II. Summary

The course presents a review of social and economic trends that explain the origins of knowledge management as well as the revision and implementation of key measurement models intellectual capital. It also seeks to work (in practice mode) with the technological tools used to concentrate and share knowledge within the company and to put such tools from a strategic perspective, understanding their advantages, limitations and uses. The course requires that students develop a research project on a topic of knowledge management.

III. Course Goal

The objective of the course is to provide students with the skills to develop Knowledge Management (KM) project initiatives aligned with business strategy and learn to measure them as intangible assets to support value creation in smart organizations with intellectual capital.

IV. Learning Results

- Recognize the differences between data, information, organizational knowledge, and intelligent organizations.
- Recognize knowledge management processes within learning organizations and in relation to their environment.
- Know and apply all the techniques and tools that allow identifying, capturing, processing, and disseminating knowledge within organizations.
- Analyze the resources that affect the developing of knowledge management processes in an intelligent organization through a strategic alignment tool to demonstrate the value creation.
- Recognition of the need for, and an ability to engage in independent and life-long learning in the broadest context of technological change.
- Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to professional engineering practice.



V. Methodology

To achieve the objectives, the class sessions will have two parts, the first, conceptual, where the reading material will be reviewed, complemented with presentations by the professor and the students; the second part will be practical, where the concepts will be applied and discussion based on the analysis of cases, controls, or exercises assigned in class will be encouraged.

Class Participation and attendance: In addition to the assistance, the professor will consider participation with relevant ideas. The "virtual presence" is a lack of participation. There are class evaluations each day. Two cumulative delays are one absence.

Case Reports: The course is oriented toward real cases. The development of the case report is in a workgroup (max. 3 members). The case report should use the concepts of the corresponding sessions to develop frameworks and techniques that will allow them to analyze and solve the case critically (as research projects). The development of the document should be academic, technical, and efficient. The case report body must contain Introduction, Problem Definition, Analysis (diagnosis using course concepts), Practical Contribution (project initiatives in KM aligned to business strategy), Discussion, and Conclusions (by each group member). Finally, it is mandatory the References with APA style.

Surprise Quizzes: It will take a minimum of five (5) pop quizzes during the course, covering aspects of professor presentations, cases, or readings assigned in the class session. These quizzes will consider the final session reviewed and / or the corresponding session to discuss.

VI. Evaluation

The evaluation system is integral and continuous. It involves the Permanent Evaluation Average (65%), the Midterm Exam (10%) and Final Exam (25%).

The Final Evaluation Average (FA) makes of this way:

Where:

FA = Final Average

ME = Midterm Exam

PA = Permanent Evaluation Average and,

FE = Final Exam

Permanent Evaluation Average includes these items:

PERMANENT EVALUATION AVERAGE 65%			
Type of evaluation	Description	Weight %	
Class Participation	Active Participation (Discuss, ask and answer)	10	
Attendance	Class attendance will be valued positively	5	
Case Reports	Case Reports	30	
Surprise Quizzes	Surprise Quizzes	15	
Final Project	Final Integrative Project	40	



VII. Content Calendar

Week	Contents	Activities / Evaluation	
LEARNING UNIT I: Origins and Principles of Knowledge Management			
organiz Ability	lize the differences between data, information, organizations. to apply reasoning informed by the contextual knowledge and cultural issues, and the consequent responsibilities rele	to assess societal, health, safety,	
practice	INTRODUCTION TO KNOWLEDGE		
1° August 23 th – 29 th	 MANAGEMENT (KM) What Is Knowledge Management? Multidisciplinary Nature of KM Types of Knowledge: Tacit and Explicit Concept Analysis Technique History of Knowledge Management From Physical Assets to Knowledge Assets KM for Individuals, Communities, and Organizations 	Presentation of the course methodology	
Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 1 LEARNING UNIT II: Knowledge Management Process and Models			
LEARNING F	RESULTS:		
Recogn organizRecogn		within learning ent and life-long learning in the	
2° August 30 th - September 5 th	KNOWLEDGE MANAGEMENT PROCESSES Major Approaches to the KM Cycle Meyer and Zack KM Cycle Bukowitz and Williams KM Cycle McElroy KM Cycle Wiig KM Cycle Integrated KM Cycle	Surprise Quiz 1 About Session 1	
	Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 2		
3° September 6 th – ₁₂ th	 KNOWLEDGE MANAGEMENT MODELS Major Theoretical KM Models Von Krogh and Roos Model of Organizational Epistemology Nonaka & Takeuchi Knowledge Spiral Model Choo Sense-Making KM Model Wiig Model for Building and Using Knowledge Boisot I-Space KM Model Complex Adaptive System Models of KM European Foundation for Quality Management (EFQM) KM Model Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 3 	About Session 2 Assignment of cases randomly for the 1st Case Report	



LEARNING UNIT III: Knowledge Management Techniques

LEARNING RESULTS:

- Know and apply all the techniques and tools that allow identifying, capturing, processing, and disseminating knowledge within organizations.
- Recognition of the need for, and an ability to engage in independent and life-long learning in the broadest context of technological change.

broade	st context of technological change.	
	KNOWLEDGE CAPTURE AND CODIFICATION	1st Case Report
	Tacit Knowledge Capture	Groups Presentation
4°	Tacit Knowledge Capture at the Individual,	
	Group	
September	Tacit Knowledge Capture at Organizational	
13 th –19 th	Levels	
13 13	Explicit Knowledge Codification	
	2 Explicit knowledge codification	
	Dalkir. Knowledge Management in theory and practice	
	The MIT press 3a Ed. Cap 4	
	KNOWLEDGE SHARING	Surprise Quiz 3
5°	The Social Nature of Knowledge	About Session 3 and 4
	Sociograms and Social Network Analysis	
September	Community Yellow Pages	
20 th -	Knowledge-Sharing Communities	
	Roles and Responsibilities in CoPs	
26 th	 Knowledge Sharing in Virtual CoPs 	
	Dalkir. Knowledge Management in theory and practice	
	The MIT press 3a Ed. Cap 5	
	FINDING KNOWLEDGE	Surprise Quiz 4
6°	Knowledge Application at the Individual Level	About Session 5
	Bloom's Taxonomy of Learning Objectives	
September	Task Analysis and Modeling	Assignment of cases
27 th -	Knowledge Application at the Group and	randomly for the 2nd Case
October 3 rd	Organizational Levels	Report
	Dalkir. Knowledge Management in theory and practice	
	The MIT press 3a Ed. Cap 6	
	ORGANIZATIONAL CULTURE	2nd Case Report
70	ONGARIZATIONAL COLITICE	Groups Presentation
7°	Different Types of Cultures	Groups Fresentation
October 4 th	Levels of culture	
- 10 th	Organizational Maturity Models	
	Stages of Organizational Maturity	
	The Infosys KM Maturity Model	
	The KPQM Maturity Models	
	Forrester Group KM Maturity Model	
	CoP Maturity Models	
	Dalkir. Knowledge Management in theory and practice	
	The MIT press 3a Ed. Cap 7	
8°		
October 11 th	MIDTERM EXAM	1
- 17 th		
1,		



	KNOWLEDGE MANAGEMENT TOOLS	Surprise Quiz 5
9°	 Knowledge Capture and Creation Tools Major KM techniques, tools, and technologies. 	About Session 6 and 7
October	Data Mining and Knowledge Discovery	
18 th - ₂₄ th	 Blogs and Mashups Context Management Tools Folksonomies and Social Tagging/Bookmarking Personal Knowledge Management Knowledge Sharing and Dissemination Tools Groupware and Collaboration Tools Intelligent Filtering Tools 	
	Adaptive Technologies	
	Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 8	

LEARNING UNIT IV: Resource-Based View (Strategy) to develop Knowledge Management as Intelligent Organization

LEARNING RESULTS:

- Analyze the resources that affect the developing of knowledge management processes in an intelligent organization through a strategic alignment tool to demonstrate the value creation.
- Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to professional engineering practice.

10°	KNOWLEDGE MANAGEMENT STRATEGY AND PLANNING	Surprise Quiz 6 About Session 9
October 25 st -31 st	 Developing a KM Strategy Knowledge Audit Gap Analysis KM Strategy Road Map Balancing Innovation and Organizational Structure Types of Knowledge Assets Produced Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 9 	
11° November 1 st -7 th	EVALUATING KNOWLEDGE MANAGEMENT KM Return on Investment (ROI) and Metrics Benchmarking Method Balanced Scorecard Method House of Quality Method Results-Based Assessment Framework Measuring the Success of CoP	Surprise Quiz 7 About Session 10 Assignment of cases randomly for the 3rd Case Report
	Dalkir. Knowledge Management in theory and practice The MIT press 3a Ed. Cap 10	



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	ORGANIZATIONAL LEARNING AND	3rd Case Report
12°	ORGANIZATIONAL MEMORY	Groups Presentation
	 How Do Organizations Learn and 	
November	Remember?	
8 th -14 th	 Frameworks to Assess Organizational 	
14	Learning and Organizational Memory	
	The Management of Organizational	
	Memory	
	Organizational Learning	
	The Lessons Learned Process	
	Organizational Learning and Organizational	
	Memory Models	
	Three-Tiered Approach to Knowledge	
	Continuity	
	Dalkir. Knowledge Management in theory and	1
	practice The MIT press 3a Ed. Cap 11	
	THE KNOWLEDGE MANAGEMENT TEAM	Surprise Quiz 8
13°	Major Categories of KM Roles	About Session 11 and 12
13	Senior Management Roles	
November	KM Roles and Responsibilities within	Assignment of cases randomly for
November 15 st –21 th	Organizations	the 4th Case Report
15 –21	The KM Profession	·
	The Ethics of KM	
	Dalkir. Knowledge Management in theory and	1
	practice The MIT press 3a Ed. Cap 13	
	FUTURE CHALLENGES FOR KM	4th Case Report
	Political Issues regarding Internet Search	Groups Presentation
14°	Engines	Croups resemunon
14	Politics of Organizational Context and	
	Culture	
November	Shift to Knowledge-Based Assets	
22 th - 28 th	Intellectual Property Issues	
	How to Provide Incentives for Knowledge	
	Sharing?	
	Future Challenges for KM	
	KM Research	
	A Postmodern KM	
	Concluding Thought Delicing Knowledge Management in the arrow of	
	Dalkir. Knowledge Management in theory and	
4-0	practice The MIT press 3a Ed. Cap 14	
15°	FINAL PROJECT	
November	Presentation and discussion of the final case	
29th –		
December 5 th		
16°		
December	FINAL EXAM	
6 th -12 th	FINAL EXAM	
12		

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VIII. References

Mandatory bibliography:

Course Textbook

• Dalkir, K. (2017). Knowledge Management in Theory and Practice (3nd edition). Cambridge, Massachusetts: The MIT Press.

Complementary bibliography:

Recommended Books

- Hislop, D., Bosua, R., & Helms, R. (2018). Knowledge management in organizations: A critical introduction. (4th edition) Oxford: Oxford University Press.
- Mohapatra, S., Agrawal, A., & Satpathy, A. (2016). Designing Knowledge Management-Enabled Business Strategies. Switzerland: Springer.
- Becerra-Fernandez, I., & Sabherwal, R. (2015). Knowledge Management. Systems and Processes. (2nd edition). New York: M.E.Sharpe.
- North, K., & Kumta, G. (2014). Knowledge management: Value creation through organizational learning. Switzerland: Springer.
- Jashapara, A. (2011). Knowledge Management: An Integrated Approach (2nd edition). Harlow: Pearson Education Limited.

Recommended Research Papers

- Ramadan, B. M., Dahiyat, S. E., Bontis, N., & Al-Dalahmeh, M. A. (2017). Intellectual capital, knowledge management and social capital within the ICT sector in Jordan. Journal of Intellectual Capital, 18(2), 437-462.
- Wang, Wang, & Liang (2014). Knowledge sharing, intellectual capital and firm performance, Management Decision, 52(2), 230-258.
- Sharabati, A. A. A., Naji Jawad, S., & Bontis, N. (2010). Intellectual Capital and Business Performance in the pharmaceutical sector of Jordan. Management Decision, 48(1), 105-131.

IX Professor

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