



# **Course Syllabus Knowledge Management**

March – July 2024

Term X

**Professor** 

**Augusto Carlos Choy Pun** 



# I. General Information

Course:	Knowledge Management		
Prerequisite:	Business Process Management	Code	01962
Preceding	-	Semester	2024-1
Credits:	3	Term	10 <sup>th</sup>
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 of 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 the 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 concerning 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 development 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 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 an 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 to 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 (40%), the Mid-term Exam (30%), and the Final Exam (30%).

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

Where:

FA = Final Average
MTE = Midterm Exam
PEA = Permanent Evaluation Average
and, FE = Final Exam

Permanent Evaluation Average includes these items:

PERMANENT EVALUATION AVERAGE 40 %			
Type of evaluation	Description	%	
Class Participation	Active Participation (Discuss, ask and answer)	10	
Attendance	Class attendance will be valued positively	5	
Case Reports	4 Case Reports	30	
Quizzes	5 Quizzes	15	
Final Project	Final Integral Project	40	





# VII. Content Calendar

Week	Contents	Activities / Evaluation
LEARNING U	NIT I: Origins and Principles of Knowledge Mana	agement
LEARNING RES	ULTS:	
<ul> <li>Recog</li> </ul>	nize the differences between data, information, organization	onal knowledge, and intelligent
organi	zations.	
<ul> <li>Ability</li> </ul>	to apply reasoning informed by contextual knowledge to	assess societal, health, safety,
legal, a	and cultural issues, and the consequent responsibilities re	levant to professional
engine		
practio		
	INTRODUCTION TO KNOWLEDGE	
	MANAGEMENT (KM)	Presentation of the course
	What Is Knowledge Management?	methodology
1°	ISO 30401     Multidisciplinary Nature of KM	
Na l. 24	<ul> <li>Multidisciplinary Nature of KM</li> <li>Types of Knowledge: Tacit and Explicit</li> </ul>	
March 21 – 27	Concept Analysis Technique	
21	History of Knowledge Management	
	From Physical Assets to Knowledge Assets	
	KM for Individuals, Communities, and Organizations	
	Dalkir (2017), Knowledge Management in Theory and	7
	Practice The MIT Press 3a Ed. Ch 1	
<b>LEARNING U</b>	NIT II: Knowledge Management Process and Mo	odels
LEARNING	RESULTS:	
<ul> <li>Recog</li> </ul>	nize knowledge management processes within learning or	ganizations and
	rning their environment.	
_	nition of the need for, and an ability to engage in independ	ent and life-long learning in the
broad	est context of technological change.	
	KNOWLEDGE MANAGEMENT	Quiz 1
	PROCESSES	About Session 1
<b>2</b> °	Major Approaches to the KM Cycle	
	Meyer and Zack KM Cycle	
	Bukowitz and Williams KM Cycle	
April 01 – 07	McElroy KM Cycle     Mija KM Cycle	
	Wiig KM Cycle     Integrated KM Cycle	
	Integrated KM Cycle	_
	Dalkir (2017), Knowledge Management in Theory and	
	Practice The MIT Press 3a Ed. Ch 2	
	KNOWLEDGE MANAGEMENT MODELS	Quiz 2
	Major Theoretical KM Models	About Session 2
	Von Krogh and Roos Model of Organizational	
	Forish and James	Random assignment of

# Practice The MIT Press 3a Ed. Ch 3

**Course Syllabus Knowledge Management (2024 1)** 

• Choo Sense-Making KM Model

• Boisot I-Space KM Model

(EFQM) KM Model

• Nonaka & Takeuchi Knowledge Spiral Model

• Wiig Model for Building and Using Knowledge

Dalkir (2017), Knowledge Management in Theory and

Complex Adaptive System Models of KMEuropean Foundation for Quality Management

Epistemology

3°

April 08 - 14

Random assignment of

cases for 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.	_
4° April 15 – 21	<ul> <li>KNOWLEDGE CAPTURE AND CODIFICATION</li> <li>Tacit Knowledge Capture</li> <li>Tacit Knowledge Capture at the Individual, Group</li> <li>Tacit Knowledge Capture at Organizational Levels</li> <li>Explicit Knowledge Codification</li> </ul>	1st Case Report Group Presentations
	Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 4	
5° April 22 – 28	<ul> <li>KNOWLEDGE SHARING</li> <li>The Social Nature of Knowledge</li> <li>Sociograms and Social Network Analysis</li> <li>Community Yellow Pages</li> <li>Knowledge-Sharing Communities</li> <li>Roles and Responsibilities in CoPs</li> <li>Knowledge Sharing in Virtual CoPs</li> <li>Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 5</li> </ul>	Quiz 3 About Session 3 and 4
6° April 29 – May 05	<ul> <li>FINDING KNOWLEDGE</li> <li>Knowledge Application at the Individual Level</li> <li>Bloom's Taxonomy of Learning Objectives</li> <li>Task Analysis and Modeling</li> <li>Knowledge Application at the Group and Organizational Levels</li> </ul>	Quiz 4 About Session 5
	Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 6	Random assignment of cases for the 2nd Case
7° May 06 - 12	ORGANIZATIONAL CULTURE  • Different Types of Cultures • Levels of culture • 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 (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 7	2nd Case Report Group Presentations
8° May 13 - 19	MIDTERM EXAM	<b>/</b>



	KNOWLEDGE MANAGEMENT TOOLS	Quiz 5
9° May 20 - 26	<ul> <li>Knowledge Capture and Creation Tools</li> <li>Major KM techniques, tools, and technologies.</li> <li>Data Mining and Knowledge Discovery</li> <li>Blogs and Mashups</li> <li>Context Management Tools</li> <li>Folksonomies and Social Tagging/Bookmarking</li> <li>Personal Knowledge Management</li> <li>Knowledge Sharing and Dissemination Tools</li> <li>Groupware and Collaboration Tools</li> <li>Intelligent Filtering Tools</li> <li>Adaptive Technologies</li> </ul>	About Sessions 6 and 7 Tools Report Group Presentations
	Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 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.

	KNOWLEDGE MANAGEMENT STRATEGY	Quiz 6
10°	AND PLANNING	About Session 9
May 27 – June 02	<ul> <li>Developing a KM Strategy</li> <li>Knowledge Audit</li> <li>Gap Analysis</li> <li>KM Strategy Road Map</li> <li>Balancing Innovation and Organizational Structure</li> <li>Types of Knowledge Assets Produced</li> <li>Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 9</li> </ul>	
11° June 03 - 09	EVALUATING KNOWLEDGE MANAGEMENT	Quiz 7 About Session 10 Random assignment of cases for 3rd Case Report



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12° June 10–16	ORGANIZATIONAL LEARNING AND ORGANIZATIONAL MEMORY  • How Do Organizations Learn and Remember?  • Frameworks to Assess Organizational Learning and Organizational Memory  • The Management of Organizational Memory  • Organizational Learning  • The Lessons Learned Process	3rd Case Report Group Presentations
	<ul> <li>Organizational Learning and Organizational Memory Models</li> <li>Three-tiered approach to Knowledge Continuity</li> <li>Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 11</li> </ul>	
13° June 17 – 23	<ul> <li>THE KNOWLEDGE MANAGEMENT TEAM</li> <li>Major Categories of KM Roles</li> <li>Senior Management Roles</li> <li>KM Roles and Responsibilities within Organizations</li> <li>The KM Profession</li> <li>The Ethics of KM</li> <li>Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 13</li> </ul>	Quiz 8 About Sessions 11 and 12 Random assignment of cases for 4th Case Report
14° June 24–30	<ul> <li>FUTURE CHALLENGES FOR KM</li> <li>ISO 30401 Structure and requirements</li> <li>Political Issues regarding Internet Search Engines</li> <li>Politics of Organizational Context and Culture</li> <li>Shift to Knowledge-Based Assets</li> <li>Intellectual Property Issues</li> <li>How to Provide Incentives for Knowledge Sharing?</li> <li>KM Research</li> <li>A Postmodern KM</li> <li>Concluding Thought</li> <li>Dalkir (2017), Knowledge Management in Theory and Practice The MIT Press 3a Ed. Ch 14</li> </ul>	4th Case Report Group Presentations
15° July 01 – 07	<ul> <li>FINAL PROJECT</li> <li>Presentation and discussion of the final project.,</li> </ul>	
16° July 08–14	FINAL EXAM	



## VIII. References

#### Mandatory bibliography:

#### **Course Textbook**

- Dalkir, K. (2017). Knowledge Management in Theory and Practice (3<sup>rd</sup> edition). Cambridge, Massachusetts: The MIT Press.
- Shekar S.. (2021) Design Knowledge Management System: S practical guide for implementingiso 30401 KMS Standard. Penman Books 1a Ed
- Gomez Foronda, Susana. Intelligent Organizations (Spanish Edition). Penguin Random HousePublishing Group Spain

#### Complementary bibliography:

#### **Recommended Books**

- Hislop, D., Bosua, R., & Helms, R. (2018). Knowledge management in organizations: A critical introduction. (4<sup>th</sup> 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 (2<sup>nd</sup> 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.
- Robles, J.; Vilcapoma, E. & Matute, G. (2006). Identificación de Redes de Conocimiento mediante el Análisis de Redes Sociales. *AMCIS 2006 Proceedings*. Paper 516.
- Senge, P. (1990). The fifth discipline: The art and science of the learning organization. New York: Currency Doubleday.
- 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.
- Wang, Wang, & Liang (2014). Knowledge sharing, intellectual capital and firm performance, *Management Decision*, 52(2), 230-258.

#### **IX Professor**

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