



UNIVERSIDAD
esan

Course Syllabus

Intelligent Organizations and Knowledge Management

March – July 2019

X Semester

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I. General Information

Course:	Intelligent Organizations and Knowledge Management		
Requirement:	Tecnologías de la Información para la Gestión del Capital Humano Evaluación y Gestión del Rendimiento	Code:	07023
Precedence:		Semester:	2019-1
Credits:	3	Level:	X
Hours per week:	3 hours	Course modality:	Classroom presence
Career(s)	Organizational Psychology	Course coordinator:	Nombre y Apellido Varinia Bustos E-mail address vbustos@esan.edu.pe

II. Summary

This course contemplates the analysis of the principles that promote an "intelligent organization", the five disciplines of Senge. Evaluation and diagnosis of the organization with a view to the development of an intelligent organization. The use of technological tools. This course also analyzes the scenarios of training promotion or E-learning, the development of the necessary skills within organizations to identify and distribute good practices or critical information and use it among its members, as well as to assess and assimilate it. if it is outside of these, making use of information technologies. Tutorials via e-mail, tutorials via video conference, computer-assisted instruction.

III. Course Objectives

Develop project initiatives in knowledge management aligned to business strategy and learn to measure them as intangible assets to support value creation in intelligent organizations with intellectual capital.

IV. Learning outcomes

By the end of the semester, the student:

- Recognizes the differences between data, information, organizational knowledge and intelligent organizations. Recognizes the processes of knowledge management within learning organizations and in relation to their environment.

- Analyzes resources that affect the developing of KM processes in an Intelligent Organization through Resource Based-View to demonstrate the Value Creation.
- Proposes a project that supports the development of knowledge management in an organization (as IO) through an alignment tool and strategic control (intellectual capital and balanced scorecard), to demonstrate the value creation as firm performance.

V. Methodology

The course will be in blended learning. The professor will promote active participation from students. For this reason, the students must review and analyze readings, updated articles, and study cases from UEVirtual. This review and analysis will allow student to develop Case Reports, Case Presentations, Reading Controls, and Practical evaluations. Furthermore, the students must do a Final Report through research, collaborative work, and exposure of topics of interest to the course. The student will seek to increase their skills of analysis and synthesis, critical thinking, problem identification, and solution, always considering an ethical conduct.

VI. Evaluation

The evaluation system is integral and continuous. It involves the Permanent Average (60%), the Midterm Exam (20%) and Final Exam (20%).

Permanent Average includes these items:

PERMANENT AVERAGE - PA: 60%		
Type of evaluation	Description	Weight (100%)
Reading controls	3 reading control during the semester	15%
Study Cases – Reports	5 Case Reports	10%
Study Cases – Presentation	5 Case Reports: Presentation / class discussion	15%
Practical evaluation	Midterm Exam 1	15%
	Midterm Exam 2	15%
Final Report	Previous Report (points 1, 2, 3, 4, 5) With class discussion / presentation	10%
	Last Report (points from 1 to 8)	15%
Class Participation	Active Participation during the semester.	5%

The Final Average (FA) corresponds to this equation:

$$FA = (0,20 \times ME) + (0,60 \times PA) + (0,20 \times FE)$$

Where:

FA = Final Average | ME = Midterm Exam | PA = Permanent Average | FE = Final Exam

II. Content schedule

Week	Contents	Activities / Evaluation
LEARNING UNIT I LEARNING RESULTS: <ul style="list-style-type: none"> Recognizes the differences between data, information, organizational knowledge and intelligent organizations. Recognizes the processes of knowledge management within learning organizations and in relation to their environment. 		
1st March 21 - 27	CONCEPTS OF KNOWLEDGE MANAGEMENT & INTELLIGENT ORGANIZATIONS 1.1 Previous Concepts 1.2 Types of Knowledge and Intelligent Organizations 1.3 Knowledge categories in the company 1.4 The Knowledge Management Processes	Class Introduction Syllabus Presentation 1st PPT & Class Participation
2nd March 28 - April 03	ORGANIZATIONAL KNOWLEDGE IDENTIFICATION 2.1 Identification of Knowledge 2.2 Data, Information, and Knowledge 2.3 Knowledge and Management	2nd PPT & Class Participation 1st Case Report & Presentation Porter M. (1993) Hattori-Seiko . Harvard Business School, Boston, MA. Case Number: 9-385-300. - Class discussion 1st Reading Control
	Mandatory reading: Asrar-ul-Haq, M. Anwar, S. (2016). A systematic review of knowledge management and knowledge sharing: Trends, issues, and challenges. <i>Cogent. Business & Management</i> , 3, 1-17. Retrieved 03/14/2019, from: https://www.cogentoa.com/article/10.1080/23311975.2015.1127744	
3rd April 04 – 10	KNOWLEDGE GENERATION CONCEPTS, TECHNIQUES, MODELS – part 1 3.1 Creating Knowledge: Concepts and Techniques 3.2 Formation techniques applicable to the creation of knowledge 3.3 SECI Model	1st Part - Final Report 1. Introduction to Organization a. Vision b. Mission c. Principles and Values d. Strategic Goals 2. Organizational Timeline 3. Recent Events in Specific Area 3rd PPT & Class Participation

<p style="text-align: center;">4th</p> <p style="text-align: center;">April 11 - 17</p>	<p style="text-align: center;">KNOWLEDGE GENERATION CONCEPTS, TECHNIQUES, MODELS – part 2</p> <p>4.1 Types of Knowledge Generation 4.2 Knowledge and Innovation 4.3 How to motivate staff to create knowledge 4.4 How to maintain updated knowledge</p> <p>Mandatory reading: Santoro, G. Vrontis, D. Thrassou, A. Dezi, L. (2016). The Internet of Things: Building a knowledge management system for open innovation and knowledge management capacity. <i>Science Direct</i>, 136, 347-354. Retrieved 03/14/2019, from: https://www.sciencedirect.com/science/article/pii/S0040162517302846</p>	<p>4th PPT & Class Participation</p> <p>2nd Case Report & Presentation Davenport, T. (1997). If only HP knew what HP knows... Managing Organizational Knowledge. The Ernst & Young Center for Business Innovation.</p> <p>2nd Reading Control</p> <p>1st Computer Lab: Group System for Brainstorming</p>
<p style="text-align: center;">5th</p> <p style="text-align: center;">April 22 - 27</p>	<p style="text-align: center;">KNOWLEDGE CODING AND COORDINATION</p> <p>5.1 Principles of Knowledge Codification 5.2 Codification Dimensions of Knowledge 5.3 Mapping Knowledge</p>	<p>2nd Part - Final Report</p> <ol style="list-style-type: none"> 1. Introduction to Organization 2. Organizational Timeline 3. Recent Events in Specific Area 4. External Factors <ol style="list-style-type: none"> a. Macro-environment b. Micro-environment <p>1st Practical evaluation</p> <p>5th PPT & Class Participation</p>
<p style="text-align: center;">6th</p> <p style="text-align: center;">April 29 – May 4</p>	<p style="text-align: center;">KNOWLEDGE TRANSFER, USE AND LEARNING ORGANIZATIONS</p> <p>6.1 Strategies, Frictions, and Solutions of Knowledge Transference 6.2 Transfer = Transmission + Absorption (& Use) 6.3 Learning Organizations</p>	<p>6th PPT & Class Participation</p> <p>3rd Case Report & Presentation Marchand, Chung & Paddock (2003). CEMEX. International Institute for Management Development, Lausanne, Switzerland. Case N° IMD084.</p> <p>2nd Computer Lab: AtlasTI for Coding & Content Analysis</p>

LEARNING UNIT II LEARNING RESULTS: <ul style="list-style-type: none"> Analyzes resources that affect the developing of KM processes in an Intelligent Organization through Resource Based-View to demonstrate the Value Creation. 		
7th May 6 - 11	RESOURCES BASED-VIEW & KM IN INTELLIGENT ORGANIZATIONS 7.1 Resource Based-View and Knowledge Management 7.2 Knowledge-oriented Personnel 7.3 The Knowledge Management Workers	3rd Part - Final Report 1, 2, 3, 4, 5. Organizational Resources a. Organizational Structure b. Organizational Processes c. People d. Organizational Culture e. Information Technology f. Organizational Infrastructure 7th PPT & Class Participation
8th May 13 – 18	MIDTERM EXAM	
9th May 20 - 25	RBV: STRUCTURES AND PROCESSES 9.1 The organizational structure types and operational innovation. 9.2 The process management standards.	8th PPT & Class Participation 4th Part – Final Report 1, 2, 3, 4, 5 6. Map-Matrix Resources and KM Processes Previous Report Presentations
10th May 27 – June 1	RBV: WORKERS AND CULTURE 10.1 Knowledge workers 10.2 Organizational Culture as a Resource of Knowledge	3rd Computer Lab: UCInet & NetDraw for Network Analysis 9th PPT & Class Participation
11th June 3 - 8	RBV: INFRASTRUCTURE AND TECHNOLOGY 11.1 Collaborative Tools: Groupware 11.2 Case Based Reasoning	10th PPT & Class Participation 4th Case Report & Presentation McAfee & De Royere (2006). Los Grobo . Harvard Business

		School, Boston, MA. Case N° 606-S30.
LEARNING UNIT III LEARNING RESULTS: <ul style="list-style-type: none"> Proposes a project that supports the development of knowledge management in an organization (as IO) through an alignment tool and strategic control (intellectual capital and balanced scorecard), to demonstrate the value creation as firm performance. 		
12th June 10 - 15	INTELLECTUAL CAPITAL – PRINCIPLES 12.1 Hidden Value 12.2 The New Balance 12.3 The Navigator Mandatory reading: Agrawal, A. Chowdhary, A. (2016). Perspective: Materials informatics and big data: Realization of the “fourth paradigm” of science in materials science. <i>APL Materials</i> . 1-11. Retrieved 03/14/2019, from: https://aip.scitation.org/doi/pdf/10.1063/1.4946894?class=pdf	5th Case Report & Discussion Bartlett & Mahmood (1998). Skandia AFS . Harvard Business School, Boston, MA. Case N° 9-396-412. 3rd Reading Control 11th PPT & Class Participation
13th June 17 -22	KM PROJECT MANAGEMENT FOR IO 13.1 Knowledge Management Projects 13.2 From Organizational Strategy to Strategy Project 13.3 Projects, Innovation and Strategy 13.4 Portfolio, Program, and Project	4th Computer Lab: MS Project (Youtube link) 12th PPT & Class Participation 5th Part – Final Report 1, 2, 3, 4, 5, 6, 7. KM Project Proposal 2nd Practical evaluation Report Presentations
14th June 24 - 29	INTELLECTUAL CAPITAL & BSC APPLICATION THE INTANGIBLE ASSETS MEASUREMENT 14.1 The value of intangibles: Measuring IC 14.2 The Performance of Knowledge Management 14.3 Knowledge Management, Competency Management and Intellectual Capital	4th Computer Lab: SPSS to measure Intellectual Capital (Paper Explanation) 13th PPT & Class Participation
15th July 1 - 6	VALUE CREATION AS FIRM PERFORMANCE 15.1 Recent research about Knowledge Management, Learning Organizations and	14th PPT & Class Participation 6th Part – Final Report 1, 2, 3, 4, 5, 6, 7, 8. Intellectual Capital Report (include

	Intellectual Capital, and their effects on firm performance	Strategic Map and BSC) a. Learning and Knowledge Focus b. Internal Operations Focus c. Customer Focus d. Financial Focus Final Report Presentations
16th July 8 - 13	FINAL EXAM	

VIII. References

Basic Bibliography:

- Agrawal, A. Chowdhary, A. (2016). Perspective: Materials informatics and big data: Realization of the “fourth paradigm” of science in materials science. *APL Materials*. 1-11. Retrieved 03/14/2019, from: <https://aip.scitation.org/doi/pdf/10.1063/1.4946894?class=pdf>
- Asrar-ul-Haq, M. Anwar, S. (2016). A systematic review of knowledge management and knowledge sharing: Trends, issues, and challenges. *Cogent. Business & Management*, 3, 1-17. Retrieved 03/14/2019, from: <https://www.cogentoa.com/article/10.1080/23311975.2015.1127744>
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Complementary Bibliography:

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- 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. Laboratory Requirement

Laboratory sessions will take place twice in the first half of the semester and twice in the second half, as follows.

Week 4°: GroupSystem for Brainstorming

Week 6°: Atlas TI for Coding and Content Analysis

Week 10°: UCInet & NetDraw for Network Analysis

Week 13°: MS-Project for Project Proposal

Week 14°: SPSS to measure Intellectual Capital

X. Professor

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