

Syllabus of course Information Technology Project Management

August - December 2015

Level 8th

Professor

Alexandres Rene Hoyos Espinoza

I. Overview of Course

Course: Information Technology Project Code: 08087

Management

Required: Planeación Estratégica, Formulación Semester: 2015-2

y Evaluación de Proyectos

Credits: 4 Term 8th

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II. Summary

This course, understanding Information Technology (IT) Project Management, has got as a main goal that students be able to know the Project Management in relation with IT Projects. As a result of this, students should be able to first be part of and then lead a teamwork to design, develop, document, and manage a real project into IT Area, applying the knowledge, tools and techniques learned upon to PMBOK standard guide, and important topics related.

III. Objective of course

The objective of course is introducing students in concepts, tools and knowledge about Project Management in focused on IT and its challenges

Develop capabilities about management and learn tools with direct application on an IT projects.

IV. Learning Results

At the end of the course, students will be able:

- Know important concepts about Project Management, in focus to the Knowledge Management Areas proposed by The Project Management Book of Knowledge.
- Apply concepts and tools for an effective management for IT Projects.
- Design and explain a Kick Off Meeting Presentation about real project.
- Research and analyze about new topics related with Project Management.
- Analyze the importance about Soft Skills for the Project Manager.
- Explain important topics related to Project Management (PMO, Program and Portfolio Management, Agile Methods and Business Analysis).

V. Methodology

The methodology is based on active participation from students and use methods and techniques.

There will be sessions explained by the professor with lectures and discussions in group, study cases, reading papers, practice exercises and develop an integrator assignment.

There are mandatory readings from complementary material and these should be complete by students in according to schedule of course.

VI. Evaluation

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

Permanent Evaluation includes these items:

PERMANENT EVALUATION AVERAGE: 60%		
Type of evaluation	Description	Weight
IT Project Management - Workshops	Each topic during the first part of course will have a workshop developed by students	40%
	(The lowest grade will be eliminated)	
Reading Controls	Five Reading Controls	10%
	(The lowest grade will be eliminated)	
Special Group Assignment about Project Management research	The students will present an special lecture (25 – 30 min) with a writing paper about an specific topic purpose by professor	40%
Individual researching about IT Project Management	The student should research and send an essay (between 1300 and1500 words) about a recent new about IT Project Management	10%

The Final Average (FA) makes of this way:

$$FA = (0.60 \times PE) + (0.20 \times ME) + (0.20 \times FE)$$

Where:

FA = Final Average.

ME = Midterm Exam.

PE = Permanent Evaluation Average and,

FE = Final Exam.

VII. Content Scheduled

WEEK	UNIT	ACTIVITIES / EVALUATION
	1: Project Management Body of Knowledge – Part 01	
 Learning Results: Know important concepts about Project Management, in focus to the Knowledge Management Areas like Integration, Scope, Time and Cost proposed by The Project Management Book of Knowledge. Apply concepts and tools for an effective management for IT Projects. Design a Project Management Plan about real project. 		
1°	Learning Outcomes:	Lecture.
August 24 th - 29 th	 Know and understand topics about Project Management and the relation with IT Projects. Review the Integration Management Processes. 	Defining groups for special assignment.
	Topics:	
	 Introduction and Integration Management. Project Management introduction. Integration Management Processes. 	
2°	Learning Outcomes:	Lecture.
August 31 st	 Identify differences about Scope Project and Scope Product. Review the Scope Management Processes. 	 Reading Control N^a 01 IT Workshop N° 01
September 5 th	Know the importance of Work Breakdown Structure and its application.	
	Topics:	
	 Scope Management. Scope Project and Scope Product. Scope Management Process. Work Breakdown Structure as Fundamental Tool 	
3°	Learning Outcomes:	Lecture.
September 7 th – 12 th	 Learning estimation and compression techniques of time in projects. Review the Time Management Processes. Know and resolve exercises to determine Critical Path. 	 Exercises – Critical Path. Selection – Topics of special assignment.
	Topics:	
	 Time Management. Time Management Processes. Estimation Techniques of Time. Critical Path Method and Techniques of Compression. 	
4°	Learning Outcomes:	Lecture.
September 14 th – 19 th	 Learning estimation techniques of cost in projects. Review the Cost Management Processes. Know and resolve exercises about Earned Value Method. 	 Exercises - Earned Value. Reading Control N^a 02 IT Workshop N° 02
	Topics:	
	 Cost Management. Cost Management Processes. Estimation Techniques of Cost. Earned Value Method. 	

WEEK	UNIT	ACTIVITIES / EVALUATION	
Learning Unit 2: Project Management Body of Knowledge – Part 02 Learning Results:			
 Know important concepts about Project Management, in focus to the Knowledge Management Areas Quality, Communications, Human Resources, Stakeholders, Risk and Procurement proposed by The Project Management Book of Knowledge. Apply concepts and tools for an effective management for IT Projects. 			
• Design a F	Project Management Plan about real project. Learning Outcomes:	Lecture.	
September 21 st – 26 th	 Learning concepts about Quality in Project Management. Review the Quality Management Processes. Learning about Human Resource Management in projects. Review the Human Resources Management Processes. 	Lecture.	
	Topics: Quality Management. Quality Management Processes. The Seven Fundamental Quality Tools. Human Resources Management. Human Resources Management Processes Teambuilding.		
6 °	Learning Outcomes:	Lecture.	
September 28 th – October 3 rd	 Learning about Communication in Project Management. Review the Communication Management Processes Learning about Stakeholders Management in projects. 	 Reading Control N^a 03 IT Workshop N° 03 	
Coloser	 Topics: Communication Management. Communication Management Processes. Communication Matrix and Lessons Learned. Stakeholders Management Learning about Stakeholders techniques Review Stakeholders Management Processes Managing stakeholders 		
7° October 5 th	 Learning Outcomes: Learning about Procurement in Project Management. Review the Procurement Management Processes 	Lecture.	
– 10 th	Topics: Procurement Management. Procure Management Processes. Procure Matrix and Management of Suppliers		
	 Learning Outcomes: Learning about Risk Management techniques. Review the Risk Management Processes. 	Lecture.Reading Control N° 04IT Workshop N° 04	
	 Topics: Risk Management. Risk Management Processes. Risk Matrix and Risk Break Down Structure 		
8°	MIDTEDM EVANA		
October 12 th - 17 th	MIDTERM EXAM		

Learning Unit 3: Complementary topics about Project Management **Learning Results:**

- Analyze the importance about Soft Skills for the Project Manager.
- Explain important topics related to Project Management (PMO, Program and Portfolio Management,

Agile Methods and Business Analysis).		
9° October 19 th - 24 th	 Learning Outcomes: Learning about PMI's Software Extension. Topics: PMIS's IT Project Management Extension Review concepts, processes and approach. 	Lecture.
10° October 26 th - 31 st	Learning Outcomes: Learning about Soft Skills Know the importance of soft skills in Project Management	Lecture. Reading Control Na 05 IT Workshop No 05
	 Topics: Soft Skills in Project Management. The importance of Soft Skills for a Project Manager. Communication and Motivation. Leadership as fundamental skill. Negotiation and Solutions of Conflicts 	
November 2 nd - 7 th	 Learning Outcomes: Know and understand topics about Execution, Monitoring and Controlling, and Closing of IT Project. Topics: Execution, Monitoring and Controlling, and Closing of IT Project. Conduct Project Execution. The Control Change System and its implementation. Perform Configuration Management. 	Lecture. Deliver special assignment (writting paper and presentation). Special IT Workshop Na 06
12° November 9 th – 14 th	 Perform Project or Phase Closure Activities. Learning Outcomes: Know and understand the importance of Project Management Office (PMO) in an organization. Learning PMO's roles. Topics: Project Management Office (PMO). The Role of PMO in an organization. Steps to implement a PMO. PMO and Continue Improvement in Project Management. 	Lecture. Presentation – PMO Roles and Perspective: PMI International Conference. Special Group Assignment Presentation.

Learning Unit 4: Advance topics about Project Management Learning Results:

- Explain important topics related to Project Management (PMO, Program and Portfolio Management, Agile Methods and Business Analysis).
- Research and analyze about new topics related with Project Management.
- Design and explain a Kick Off Meeting presentation.

13°	Learning Outcomes:	Lecture.
November 16 th – 21 st	 Learning about Program and Portfolio Management as business strategies. Review the Program and Portfolio Knowledge Management Areas. Learning about OPM3 – Organizational Project Management Maturity Model. Topics:	Special Group Assignment Presentation.
	Program and Portfolio Management.	

14° November 23 rd – 28 th	 Differences about Project, Program and Portfolio Management. Program Management and its Knowledge Management Areas OPM3 – Concepts and application. Learning Outcomes: Learning about Agile Methods in Project Management and know the most popular methodologies. Learning about Business Analysis and the relation with Project Management. Topics: Agile Methods in Project Management. Introduction to Agile Methods. XP –Extreme Programming. Scrum. Business Analysis. Introduction to Business Analysis and relation with IT Role of Business Analyst and relation with IT Program and Portfolio Management and its Knowledge Management and its Knowledge Management Introduction with IT Role of Business Analyst and relation with IT Program and Portfolio Management and its Knowledge Management and knowl	Lecture. Special Group Assignment Presentation. Deliver Essay about IT Project Management news.
15° November 30 th – December 5 th	Projects Knowledge Areas of Business Analysis. Learning Outcomes: - Expose a Kick Off Meeting presentation based on Integrated Management Plan IT Project. Topic: - Final Presentation - Integrated Management Plan IT Project	Workshop – Project Management Na 7, Final Presentation – Expose a Kick Off Meeting.
16° December 7 th – 12 th	FINAL EXAM	

VIII. Bibliography

Mandatory Bibliography

- Project Management Institute PMI. (2013). *Project Management Body of Knowledge*. (5th ed). Pensilvania: PA, USA. Book Editor PMI Publications.
- Project Management Institute PMI. (2013). *The Standard of Program Management*. (3th ed). Pensilvania: PA, USA. Book Editor PMI Publications.
- Project Management Institute PMI. (2013). *The Standard of Portfolio Management*. (3th ed). Pensilvania: PA, USA. Book Editor PMI Publications.
- Project Management Institute PMI. (2013). Software Extension to PMBOK Guide Fifth Edition. Pensilvania: PA, USA. Book Editor PMI Publications.
- Kezner, H. (2007). Project Management a systems approach to planning, scheduling and controlling. New Jersey: NJ, USA. John Wiley & Sons Inc. Levatec, C. (2006). The Program Management Office Establishing, Managing and Growing the Value of a PMO. Florida: FL, USA. J. Ross Publishing Inc.
- International Institute Business Analysis IIBA (2009). The guide to the Business Analysis Body of Knowledge. ISBN-13: 978-0-9811292-1-1.

Secondary Bibliography

- Brown, J. (2008). The Handbook of Program Management. New York: NY, USA - Mc Ġraw Hill Professional.
- Project Management Institute Portal. Retrieved from www.pmi.org.
- Scrum Alliance Portal. Retrieved from www.scrumalliance.org

IX. Lab Requirements

It will be using the computer labs for practical classes and evaluations.

X. Professor

Alexandres Hoyos

Master in Business Administration – International MBA Program from Centrum Catolica Business School (Peru) and Maastricht Shchool of Management (Netherlands). Informatic Engineer – Science and Engineering Faculty from Pontificia Universidad Catolica del Peru.

Specialized in Project Management, Agile Project Management and Business Process Administration. Project Leader and Portfolio Manager at Project Management Office (PMO). Certified as Project Management Professional (PMP ®), Scrum Master (CSM ®) and SAP Business One Consultant. Professional experience in different sectors: Technology, telecommunications, finance and banking, and massive consume.

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Professor in courses about Project Management. Consultant about Project Management, PMO and Strategic Planning.

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