



# A) COURSE

COURSE ID	COURSE NAME
5909	PROJECTS MANAGEMENT

Class Hours per Week	lass Hours per Week Lab hours per week		CREDITS	COURSE TOTAL HOURS
3	0	3	6	48

## B) DATOS BÁSICOS DEL CURSO:

	EE	ME	MME	EME	MTE
	(IEA)	(IM)	(IMA)	(IME)	(IMT)
Level:	VIII	VII	VIII	VIII	VIII
Course Type	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
(Required/Elective)					
Prerequisite	315 CREDITS				
Course:					
CACEI	IA	IA	IA	IA	IA
Classification:					

# C) COURSE GENERAL OBJECTIVE

#### At the end of the course, the student will be capable of::

Students will be able to document a blueprint including the design of a system, component or process, through the application of knowledge, skills, engineering tools and techniques to meet the needs of a company, client or business, considering the aspects economic, environmental and social all based on the methodology for Project Management, also it checks the responsibility that is acquired in the same direction or participation.

## D) TOPICS (CONTENTS AND METHODOLOGY)

UNIT 1 Introd	UNIT 1 Introduction to Project Management 8 hours				
Specific Objectve	At this stage, students will be able to define your project, scope and general and specific objectives as well as select your team to help you meet the needs of customers through tools such as the Quality				
-	Function Deployment				
1. Mech	1. Mechanisms in selecting the Project				
2. Defini	2. Definition Project Chart				
3. Defini	ition of Goals and Objectives				
4. Defini	efinition of the Scope				
5. Selecting the Team					
6. Listening the Voice of the Customer					
Readings and other Reading. Projects Management (Clifford Gray)					
resources	Web site: Moodle				





Teaching Methods	Presenting the theme Promoting teamwork Supervising activities Monitoring
Learning Activities	Readings Searching and gathering information Advances Report

UNIT 2 F	UNIT 2 PLANNING THE PROJECT 8 HOURS				
Specific ObjectiveAt this stage you will define will be able to shape your team and formulate their planning through Project.			h MS		
1.	Team	Work			
2.	Comn	nunication with	th the Customer		
3.	Define	e methodolog	y for managing conflicts		
4.	Plann	ing of resour	ces (monetary, human, infrastructure, time)		
Reading	s and	other	Reading. Projects Management (Clifford Gray)		
resources Web site: Moodle					
Teachin	g Meth	ods	Presentation of the theme		
			Reflective dialogues		
			Promoting teamwork		
			Driving Case Analysis		
Supervising a			Supervising activities Monitoring		
Learning Activities		ities	Using Software. Project Manager		
			Using: MS Project		
			Searching and gathering information		

Advances Re	port
Ŭ	0

<b>UNIT 3 EXECUTION O</b>	UNIT 3 EXECUTION OF THE PROJECT 16 HOU				
Specific In the	In the implementation phase, students will be able to map their process with action and sequencing of				
Objective activities perfectly well defined itself as well as be able to quantify the resources and run the init					
V	engineering tools and techniques.				
<ol> <li>Mapping: pro</li> </ol>	cess, activities programming.				
2. Resources P	lanning (money, human resources, infrastructure, time)				
<ol><li>Risk Manage</li></ol>	ment				
4. Execution of	the Project				
Readings and other	Reading. Projects Management (Clifford Gray)				
resources	Web site Moodle				
Teaching Methods	Presentation of the theme				
	Reflective dialogues				
Promoting teamwork					
	Driving Case Analysis				
	Designing and Presenting cases				
	Supervising activities Monitoring				





Learning Activ	rities	Readings Using Software. Project Management Using MS Project Searching and gathering information Advances Report		
UNIT 4 Project	Control		5 hours	
Specific Objective:	At this stage	e, students will be able to determine the level of compliance according to the initial with the final project and be able to express the lessons learned from the project.		
1.Monitorir	ng the initial p	lan and deviations reports		
2.Generati	ing the correc	tive actions plan		
3.Docume	nting the char	nges		
4.Modifyin	g the calenda	r of activities		
5. Resource	ces evaluatior	n and the scope of the project.		
Readings and		Reading. Projects Management (Clifford Gray)		
resources		Web site Moodle		
Teaching Meth	nods	Presentation of the theme		
-		Reflective dialogues		
		Promoting teamwork		
		Driving Case Analysis		
		Supervising activities Monitoring		
Learning Activities		Readings		
		Using Software. Project Management Using MS Project		
		Searching and gathering information		
		Advances Report		
		Λυναίτου περοιτ		

# LINIT 5 Conclusion of Project

UNIT 5 Conclus	sion of Project 11 hours				
Specific	At this stage, students will be able to determine the level of compliance according to the initial project and				
Objective	culminating with the final project and be able to express the lessons learned from the project.				
1. Docume	1. Documenting: Results				
2. Docume	entation of learning lessons				
3. Process	reviewing and results				
4. Final Rep	port				
Readings and o	other Reading. Projects Management (Clifford Gray)				
resources	Web site Moodle				
Teaching Methe	nods Presentation of the theme				
	Reflective dialogues				
	Promoting teamwork				
	Driving Case Analysis				
	Supervising activities Monitoring				
Learning activit	ities Using Software. Project Management				
	Using MS Project				
	Searching and gathering information				
	Final Report				





#### E) TEACHING AND LEARNING STRATEGIES

#### 1. At least 2 activities are required. It is important to measure the achievement of the following Student Outcomes.

(c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

(f) An understanding of professional and ethical responsibility

(g) (h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

(l) Willingness to assume leadership roles and responsibilities.

- 2. Case Based Learning
- 3. Collaborative Work Based Learning
- 4. Problem Based Learning

#### F) EVALUATION AND ASSESSMENT

EVALUATION:	SCHEDULE	Suggested Form of Evaluation and weighing	Topics
1st Partial Evaluation.	Session 16	Partial examination: 80% , HW: 20%	1,2
2nd Partial Evaluation	Session 32	Partial examination 80% , HW: 20%	3
Third Partial. Evaluation	Session 48	Partial Examination 80% , HW: 20%	4,5
Final Evaluation		100% (average of the partial examinations)	
Extraordinary examination	Week 17	100% Examination	100%
Exam of title	According to schedule school secretary	100% Exam	100% Program
Exam regularization	According to schedule school secretary	100% Exam	100% Program

#### G) BIBLIOGRAPHY AND COMPUTATIONAL RESOURCES

#### **Basic Texts:**

- 1. Clifford Gray, Erik Larson, ADMINISTRACION DE PROYECTOS, Mc Graw Hill, ISBN: 9789701072356, 2009
- 2. Francisco Rivera Martínez / Gisel Hernández Chávez, ADMINISTRACIÓN DE PROYECTOS, Pearson, ISBN: 9786074426205, 2010
- 3. Francisco Rivera Martínez / Gisel Hernández Chávez, ADMINISTRACIÓN DE PROYECTOS, Pearson, ISBN: 9786073227919, 2015





# Complementary texts

- 1. María Eugenia González De La Cueva, Administración de proyectos optimización de recursos, Trillas,
- 2. KLASTORIN , Administración de proyectos, Alfaomega , September 29, 2005
- 3. Yamal Chamoun , Administración Profesional de Proyectos-La Guía, McGraw Hill , February 19, 2002
- 4. A Guide to the Project Management Body of Knowledge , Fifth Edition , Kindle Edition

#### Software:

MS- Project Visio