



A) COURSE

Course Id:	Course			
5644	FORMULATION AND EVALUATION OF PROJECTS			
Class Hours per Week	Lab hours per week	Complementary	Credits	Total hour
		practices		course
4	0	4	8	64

B) GENERAL COURSE INFORMATION:

	EE (IEA)	ME (IM)	MME (IMA)	EME (IME)	MTE (IMT)
Level:	NA	NA	IX	NA	NA
Course Type (Required/Elective)	NA	NA	Required	NA	NA
Prerequisite Course:	NA	NA	PERSONNEL MANAGEMENT, PRODUCTION SYSTEMS II	NA	NA
CACEI Classification:	NA	NA	IA	NA	NA

C) COURSE OBJECTIVE

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

Within the administrative branch is a very important part regarding decision making in investment initiatives. The concepts contained in the course, help students in how to use tools in the selection of Investment alternatives from economically

D) TOPICS (CONTENTS AND METHODOLOGY)

1. FORMULAT	1. FORMULATION OF PROYECTS. 16 H			
Specific	Specific The student will learn and apply the theory of project formulation			
Objective:	Objective:			
1.1 What is a project?				
1.2 Marke	1.2 Market feasibility study			
1.3 Techn	1.3 Technical feasibility study			
1.4 Economic feasibility study				
Readings and	Readings and other			
resources				
Teaching Methodologies Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.				
Learning Activ	ities			



Universidad Autónoma de San Luis Potosí Collegue of Engineering Mechanical and Electrical Department Analytical Program



2 INTRODUCT	2 INTRODUCTION TO ECONOMIC 2 Hours				
EVALUATION	EVALUATION OF PROJECTS				
Specific	The student will learn the principles involved in the economic evaluation of projects				
Objective:					
2.1 Evaluation of projects: an introduction					
2.2 Main criteria utilized to evaluate a project					
Readings and o	Readings and other				
resources					
Teaching Meth	Feaching Methodologies Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.				
Learning Activities					

3	TIME	VALUE	OF	MONEY
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14 Hours Specific The student will learn to calculate the time value of money using different methods. Objective: 3.1 Cash flow diagram 3.2 Time value of money formulas

3.2 Effective and nominal interest rates

Readings and other resources	Books, Articles, Further literature, Internet Links.
Teaching Methodologies	Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.
Learning Activities	

4 METHODS U	4 METHODS UTILIZED IN THE ECONOMIC EVALUATION OF PROJECTS 16 Hours				
Specific	The student will learn to analyze one or more projects based on different methods				
Objective:					
4.1 Net present	value and capitalized cost methods				
4.2 Equivalent u	uniform annual cost method				
4.3 Internal rate	e of return method				
4.3 Internal rate	e of return method for several projects				
4.4 Benefit-cos	4.4 Benefit-cost analysis				
Readings and	Other Books Articles Europarticipation Interact Links				
resources	DUUKS, AIIIGIES, FUITIEI IIEIAIUE, IIIEIIEI LIIKS.				
Teaching Meth	nodologies Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.				
Learning Activities					

5 FURTHER A	5 FURTHER ASPECTS TO CONSIDER IN THE ECONOMIC EVALUATION OF A PROJECT. 16 Hours				
Specific	The student will learn concepts as replacement and inflation, also they will learn how to integrate	dent will learn concepts as replacement and inflation, also they will learn how to integrated all of			
Objective:	this in a process of evaluation of proyects.				
5.1 Replacemer	nt analysis				
5.2 Inflation and	I its impact on the economic evaluation of projects				
5.3 Depreciation	n methods				
5.4 Equilibrium	value analysis				
5.5 Capital budg	geting analysis				
5.6 Minimum acceptable rate of return					
5.7 Sensitivity analysis					
5.8 After-tax economic analysis					
Deadings and other					
Readings and (Books, Articles, Further literature, Internet Links.				
resources	a de la site a Exhibition thomas concept analyzis, problem recelution and discussion, aroun work and individual				
leaching Meth	Odologies Exhibition themes, concept analysis, problem resolution and discussion, group work and individual.				





Learning Activities

E) TEACHING AND LEARNING METHODOLOGIES

It will present the topics in class and we will make drills when we are finished the topic. At the end of the first topic (Formulation of Projects), the student must to do the formulation of one Project and develop it during the course and at the end thereof economic assessment is carried out for the project. This will be supported by the use of computer software.

F) EVALUATION CRITERIA:

Evaluation:	Schedule	Suggested Form of Evaluation and weighing	Topics
1er. Evaluation Partial	Session 16	Exam 85% , Homework 10%, Assistance 5%	Unity 1 y 2
2º Evaluation Partial	Session 32	Exam 85% , Homework 10%, Assistance 5%	Unity 2 y 3
3er. Evaluation Partial	Session 48	Exam 85% , Homework 10%, Assistance 5%	Unity 3 y 4
Evaluation Final Ordinary		100% Average partial evaluations	
Other Activity:			
Exam Extraordinary	Week 17 of the semester in progress	100% Exam	100% Program
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 ELECTRONIC RESOURCES

BLANK LELAND, TARQUIN ANTHONY, Ingeniería económica Mc Graw-Hill, México, D.F. 1991. (Engineering Economy)

BACA GABRIEL Evaluación de proyectos. Análisis y administración del riesgo. 3a. Ed , Mc Graw-Hill, México, D.F. 1995 (Evaluation of Proyects, Analysis and risk management)

BACA GABRIEL. Fundamentos de Ingeniería Económica. 2ª. Ed., Mc. Graw-Hill, México, D.F. 1999

Main Books

NEWMAN DONALD, Análisis económico en ingeniería. 2a Ed, McGraw-Hill, 1986. (Engineering economic analysis)





CANAD JOHN, Técnicas de análisis económico para administradores e ingenieros. Diana, 1980. (Economic analysis techniques for manager in engineering)

SOFTWARE TO USE:

MICROSOFT OFFICE. MICROSOF PROJECT.

Complementary Books