



PLANES DE ESTUDIO

IN2005 System Dynamics

SPANISH

Course with project.

Course in which it's recommended to incorporate the dimensions of the sustainable development.

Course in which it's recommended to incorporate the use of information technologies.

CIP: 143501 Industrial Engineering.

C-L-U: 3-0-8

Academic department that offers it:
Industrial Engineering

Graduate Programs who offer them:
6 INT09, 7 IIN12, 5 IIS07, 7 IIS11, 7 INT11
Certificates

Requirement:
(MA2001 or MA1006 or IN1002 or MA2010)

Equivalence:
IS00853

General aim of the course:

Upon completion of this course, students will be able to utilize the basic concepts and tools of systems thinking and system dynamics in order to study an organizational or social process through the development, implementation, validation, and maintenance of a system dynamics model.

Teaching and learning techniques:
Problem-based Learning

Bibliography:

TEXT BOOKS:

* Morecroft, John D. W. (John Douglas William), Strategic modelling and business dynamics : a feedback systems approach , Chichester, England : John Wiley & Sons, c2007, , 0470012862 (ru´stica : papel alcalino), 9780470012864 (ru´stica : papel alcalino)

BOOKS FOR CONSULTATION:

* Churchman, C. West (Charles West), El enfoque de sistemas, , México : Diana, 1976, ,
* Meadows, Donella H., Más allá de los límites del crecimiento , 2a ed., Madrid : El País : Aguilar, 1993, spaeng, 8403592566
* Meadows, Donella H., Thinking in systems : a primer , , White River Junction, Vt. : Chelsea Green Pub., c2008, , 1603580557, 9781603580557