

25849 - Concurrent engineering and PLM

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	271 - Bachelor's Degree in Industrial Design and Product Development Engineering
ECTS	7.5
Course	
Period	Second Four-month period
Subject Type	Optional
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.1. The learning process that is designed for this subject is based on:

- Encouraging the continued work of the student and it focuses on the practical aspects .
- In the sessions with the whole group the more theoretical aspects are discussed in the form of lectures , completing the technical study of real cases.
- Practical work with computer applications developed in small groups. These sessions will facilitate the completion of the work of the subject.
- Promoting the vision of concurrent engineering allowing the student to integrate the draft of the subject with other knowledge acquired in undergraduate education .

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- The evaluation is focused on the practical aspects . It has made planning for the hours of dedication are balanced each week.

5.2.Learning activities

5.3.Program

Type 1 and 2 (in traditional classroom whole group):

- * T01 The process of concurrent engineering.
- * T02 architecture of information exchange systems.
- * The commercial process T03. Relationship management (CRM)
- * T04 -05 Applications Product Life Management (PLM)
- * T06 - 07 Management Supply Chain (SCM)
- * T08 - 09 Production Planning (MRP)
- * T10 Maintenance in manufacturing processes
- * T11 - 12 Simulation of production
- * T13 coding systems and product identification
- * T14 E-commerce in the product life-cycle management.
- * T15 systems integration business planning (ERP)

Type 3 (in computer room and in small groups)

- * S01 architecture of information systems
- * S02 applications for customer relationship (CRM)
- * S03 Integration of document management
- * S04 PDM Design and Manufacturing Integrated (1)
- * S05 PDM Design and Manufacturing Integrated(2)
- * S06 Management resources production (MRP)
- * S07 Simulation of production
- * S08 systems coding and product identification
- * S09 E-commerce Integration systems
- * S10 Full integration with ERP systems

5.4.Planning and scheduling

5.4. Schedule sessions and presentation of works

7.5 ECTS: 187.5 hours / student distributed as follows:

- * 30 h. of lectures (theoretical) (15 classes 2 presential hours) Type 1
- * 15 h. class problem solving and cases (15 lessons 1 hour face) Type 2
- * 30 h. Practice class (10 sessions of 3 presential hours) Type 3
- * 32,5 h. theoretical study 70 h. practical work
- * 10 h. Project presentation Professor

Planning for weeks and by activity:

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Week	Type 1	Type 2	Type 3	Theoretical Est.	Practical Est.	Eval. + Present.	Total
1	2	1		1,5			4,5
2	2	1		2			5
3	2	1	3	2	6		14
4	2	1	3	3	6		15
5	2	1	3	3	6		15
6	2	1	3	2	8	2	18
7	2	1	3	2	8		16
8	2	1	3	2	8		16
9	2	1	3	2	8	2	18
10	2	1	3	2	8		16
11	2	1	3	2	6		14
12	2	1	3	2	6	2	16
13	2	1		2			5
14	2	1		2			5
15	2	1		3		4	10
Total	30	15	30	32.5	70	10	187.5

5.5. Bibliography and recommended resources

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No bibliographic for this subject