16224 - DMAO-U2P12 - Machine Aid Design CAD and CAE

Coordinating unit: 340 - EPSEVG - Escola Politècnica Superior d'Enginyeria de Vilanova i la Geltrú
Teaching unit: 712 - EM - Department of Mechanical Engineering
Academic year: 2012
Degree: (ENG) ENGINYERIA EN AUTOMATICA I ELECTRONICA INDUSTRIAL (Syllabus 2003). (Teaching unit Optative)
Credits: 6

Teaching languages: Catalan, Spanish, English

Teaching staff
Coordinator: MAURICI SIVATTE ADROER
Others: MAURICI SIVATTE ADROER

Teaching methodology
Classes in computer science classrooms
Practices in computers

Learning objectives of the subject
To train students in the calculation and design machine tools applied last generation, both the three-dimensional modeling, as the calculation using the finite element method and kinetic.

Content

Tension and deformation. Axial load

Torsion and Flection

Combined loads

Kinematics
The qualification of the subject is obtained from the following formula:
0.25 C1 + 0.15 C2 + 0.60 C3

Where:
C1=mark of the first partial test. Theory and problems (item 1 and 2)
C2=mark of the second partial test. Information of practical of the students.
C3=mark of the final test. Theory, problems and practical.