



e2ngineering



Project acronym/short title: e2ngineering

Title of the project: Development and testing of multilingual e-learning materials and courses in advanced engineering subject based on reusable elements, second generation e-learning architecture and methodology

Supporter of the program: Leonardo da Vinci

Contract number: n° 2004 L-B-PP-170029/2004

Total budget: 287032 EUR

Grant: 215274 EUR

Grant for NHRDEC: 27662 EUR

Consortium:

- Szent Istvan University, Institute of Machinery – coordinator - HU
- E-Collegium Foundation - HU
- University of Miskolc, North Hungarian Regional Distance Education Centre - HU
- European Association of Distance Teaching Universities - NL
- Gdansk University of Technology - PL
- SC Plasmaterm SA - RO
- Politechnica University of Timisoara - RO
- Technical University of Kosice - SK
- AdSurfEng Ltd.- UK
- JME Associates - UK

Objectives

Our project aims to develop new and effective e-learning methodology for creating certification procedure and the relevant courseware for versatile training programs, to be used in multilingual e-learning format.

Our specific aims are

- define a transferable and transparent certification system to be used in different branches of computer based engineering technologies (Certificate in Computer Aided Engineering, CCAE)
- developing series of e-learning materials in the field of IT applications in Engineering (see measurable deliverables in C2)
- All training materials will be highly illustrated (animations, video), interactive, supported by practice oriented case studies, useful links, wide range of reference materials
- All elements (Learning object metadata) will be systematised and stored in Learning Content Management Systems, to be extracted and implemented in didactically structured courses for specific target groups.
- Pilot courses will be launched in 4 countries, using electronic learning environment, all simultaneously in English and native (bilingual) language delivery form.
- Two topics will be addressed: one focusing on design of engineering elements, components, structures, systems, while the other focuses on materials, their systematisation, selection, influence on processes and their modelling and optimisation.

Target groups

Primarily: practicing engineers wishing to up-date their knowledge in IT applications related to different segments of engineering. In addition relevant target groups are as follows:

- technicians and engineers working or aiming to work in any branch of the diverse industrial sectors all over Europe, needing not only professional, but also improved language competencies, basically in technical English.
- undergraduate students at engineering faculties, all full time, part time and distance learners, using these materials as additional or as main tools for effective learning, in a blended learning approach or as remote learners
- young engineers who have recently graduated and wish to improve their labour market position or wish to start with their own business as SMEs in a promising and competitive field of engineering.