

Title of the project

CHEMEPASS - Chemical Engineering Mobility Tools

Duration: 3 years

Summary description:

Objectives

Promote Mobility* and Attractivity* in European Chemical Engineering Higher Education through :

Evaluation and recognition of competences :

Development of tools to improve the transparency of programmes and the evaluation of competences

Knowledge pedagogy :

Development of tests of knowledge for training and evaluating the basics

*Mobility within Europe and between Europe and Third countries

*Attractivity of European Higher Education versus Third countries Higher Education

The consortium submitting this application, proposes to develop Europe-wide and beyond these tools whose feasibility and interest have been demonstrated by CPE Lyon within a 2-year study financially supported by the French Ministry of Education.

This project was inspired by the works of the EFCE on recommendations for Chemical Engineering Education and of the ECTN on chemistry tests (EChemTest) and outcomes-based reference frameworks for the Chemistry Eurobachelor.

The consortium will also create a legal entity to manage the CHEMEPASS Tools, initiate a new thematic network for dissemination, and develop links with organisations outside the European Area to test the feasibility of using the CHEMEPASS Tools on a world-wide basis. The Working Party on Education of the EFCE supports this project.

The consortium is composed of 13 Higher Education Institutions of 9 European countries and 1 of South Africa: CPE Lyon (France) (Coordinator), Institut Quimic de Sarrià (Spain), Universidade do Porto (Portugal), Politecnico di Torino (Italy), INPL-ENSIC Nancy (France), INPT-ENSIACET Toulouse (France), Technische Universiteit Delft (The Netherlands), University College Dublin (Ireland), Technische Universität München (Germany), UCTM Sofia (Bulgaria), Jagiellonian University (Poland), Lappeenranta University of Technology (Finland), Durban University of Technology (South Africa).

Target groups

The CHEMEPASS tools will be for the use of :

1. Students, young graduates and professionals (in LLL), specialized in Chemical Engineering : to express their competences, to diagnose their needs for training, to identify the appropriate institution, to self-evaluate;
2. Higher Education Institutions involved with Chemical Engineering : to better assess the training needs of candidates and their previous educational programmes'outcomes; to better express the outcomes of their own educational programmes and requirements for applications;
3. Industries hiring chemical engineers around the world: to better assess the abilities of individuals, to diagnose the needs for continuing education of their employees and better identify the appropriate training institution.

Main activities

Four packages will aim at defining frameworks for the use of HEI's to express the specificities of their educational programmes in terms of Learning Outcomes, conceiving tools and methods to help the evaluation of competences of an individual person especially competences other than knowledge, developing electronic tests on knowledge of core areas of Chemical Engineering for self-evaluation, diagnosis, and integration, and initiating a new thematic network, the ECEEN (European Chemical Engineering Education Network), which will disseminate and manage the CHEMEPASS tools, and work on other higher education related issues in the field of Chemical Engineering.

These activities will be subdivided into tasks, each of them lead by one of the partner institutions. 6 workshops and 3 conferences will be organized to manage those activities and disseminate the project outcomes.

Expected outputs

CHEMEPASS tools, methods and procedures
Legal entity managing the CHEMEPASS tools
Basis for a new thematic network ECEEN

Beneficiary

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Partners

DE - TUM, Technische Universität München
ES - Universitat Ramon Llull
FR - Institut National Polytechnique de Lorraine in Nancy
FR - INPT, Institut National Polytechnique de Toulouse
IE - University College Dublin
IT - Politecnico di Torino
NL - TU Delft, Technische Universiteit Delft
PL - Uniwersytet Jagiellonski
PT - Faculdade de Engenharia da Universidade do Porto
FI - Lappeenranta teknillinen yliopisto
BG - University of Chemical Technology and Metallurgy, Sofia
South Africa - Durban University of Technology

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