

The VccSse Project



As Virtual Instrumentation represents a real revolution in the field of instrumentation and its power in creating simulation-based learning environments is well-known, this project is addressed - on the one hand - to in-service teachers training on using virtual instruments in the teaching process of different science areas (Mathematics, Physics, Chemistry) and - on the other hand - to the pupils - as end-users - who will benefit by the implementation of the Virtual Instruments in the classrooms.

The project is aimed to adapt, develop, test, implement and disseminate training modules, teaching methodologies and pedagogical strategies based on the use of Virtual Instruments, with the view to their implementation in the classroom, through Information and Communication Technology tools.

In this sense, the partnership assumes to build various pedagogical approaches in a virtual space able to offer efficient ways of using specific tools for logical understanding of the fundamental concepts in sciences.



The VccSse Project

<http://www.vccsse.ssai.valahia.ro>

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Virtual Community Collaborating Space for Science Education



Comenius 2.1 Project

2006 - 2009

VccSSe Objectives

The overall aim of the project has the following specific objectives:

1. Offering the in-service teachers a particular technology (based on Virtual Instruments) that will enhance learning in specific laboratories;
2. Applying the developed teaching methodologies and pedagogical strategies to the teaching process and share them in an easy-accessed learning environment (the Virtual Cooperative Space);
3. Improving the research base of knowledge and the implementation to other training areas;
4. Developing European cooperation and awareness;
5. Disseminating all the results at the local, national and European level.

The expected outputs of this project are:

1. The Virtual Instrumentation e-Space - that contains a web based virtual learning environment with virtual tools and instruments for training in science disciplines (Mathematics, Physics, Chemistry);
2. Modules for training - containing seminars and laboratories;
3. Materials for training - as on-line materials;
4. Database for Virtual Experiments;
5. Assessment tools;
6. Guidelines for good practices;
7. Scientific articles;
8. CD-ROM edition;
9. Virtual Instrumentation e-Space Exhibition;
10. The Project web-page.

Target Groups

The initial target groups is formed by approximately 180 in-service teachers from primary and secondary schools involved in Sciences teaching areas in the partner countries.

The teachers will collaborate in order to make curricular and pedagogical adaptation of the teaching models, virtual tools and on-line resources, to support collaborative and experimental learning in Science Education.

The other target groups consist of: 9 local coordinators (as tutors also), 9 tutors, 9 researchers, 18 local educational authorities and over 3500 pupils. In addition, teachers / professors / trainers from Europe will benefit from the project outputs in the frame of the *on-line simulating laboratories* (in the Evaluation and Dissemination Stage of the Project).

Contacts

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