

## Multilateral Project of Transfer of Innovation "Remote Workshop of Communications" (Reworcom)

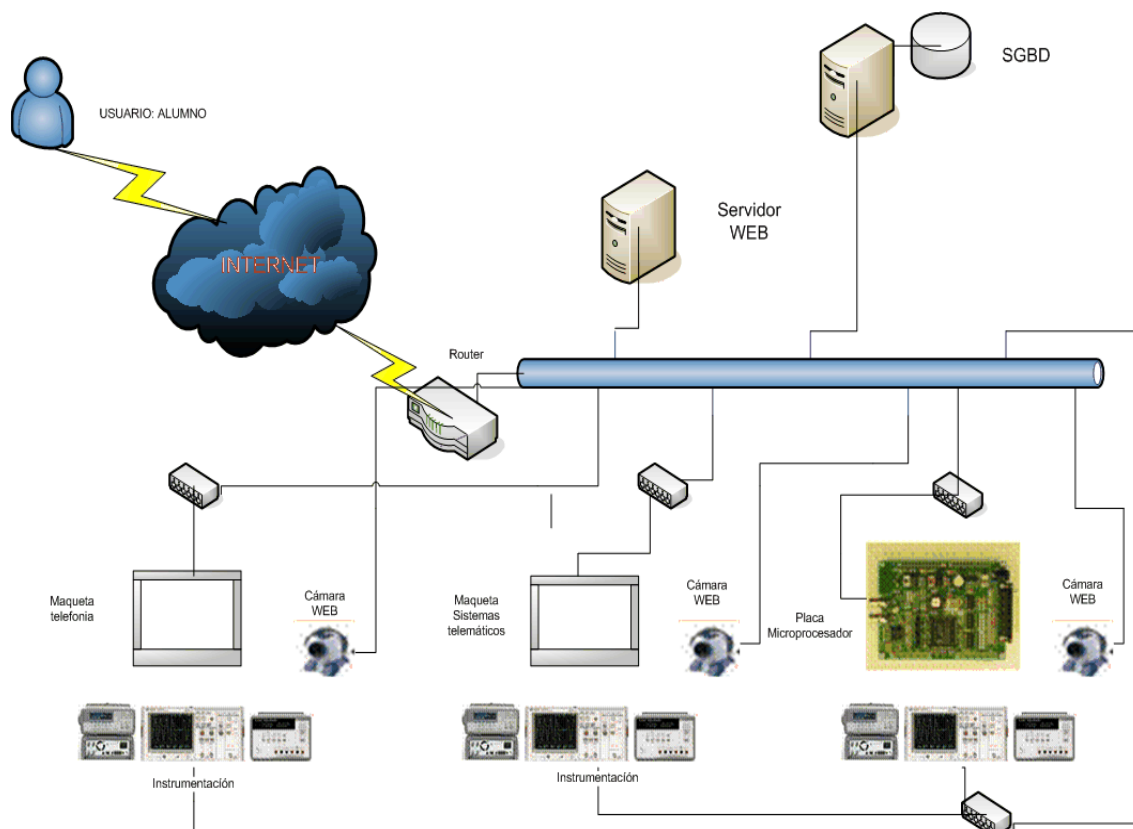
### Short technical description

The current project is based in our own technology and developments performed in our educative institution. We propose a transfer of innovation with the following objectives:

- To adapt/Create an E-learning platform.
- To create a database of knowledge.
- To create patterns of educative units.
- To visualize processes (remote video).
- To develop training models.
- To define of an open and independent e-learning platform, which could be accessible from any Internet connexion, where all the needed information is integrated (database of knowledge).
- To pose a strategy of provided information management. The information will be organised according to the structure of each subject, allowing the student to access to more information according to the assimilation degree of the previous training.
- To transform the educative documents into more attractive and dynamic formats, according to the Internet Technologies.
- To develop software to create educative units.

- To reuse physical resources that, due to their conceptual complexity and time availability have not been used in regular education, but they could be a very interesting complement to the training.
- To develop a tool of high added value for the teacher in his/her theoretical classes, because it will allow him/her to illustrate the concepts with reality and to define clearly the links between the theoretical contents and their technological implementation. This objective would be reached by means of studying those contents by the access to real industrial equipment through the Remote Workshop.
- To favour the shared use of expensive physical resources in different subjects, departments, schools, etc. This use could have an educative purpose or a research one.
- To introduce the use of videoconference in the learning process.
- To offer the possibility of improving the learning of the students in a more active and attractive way.

In our Project, we present the Remote Workshop of practical training applied to the learning of the telecommunications. Nevertheless, this Remote Workshop is applicable to any other educational field of the vocational training.



The current Project is presented as a new strategy for the education of technological nature.

This strategy arises from the development of a technological platform based in the design and implementation of specific training equipment. This training equipment, in addition to industrial equipment, constitutes the Remote Workshop of Communications, which is accessible via the Internet.

The main purpose of this Project is to facilitate the use of this equipment the teachers, students, workers, professionals, unemployed, etc. in an easy and flexible way, without restrictions. The user can operate on real, complex and expensive systems, in a real and non-simulated way, thanks to the Remote Workshops via the Internet.

The development of this Project will be based in three main axes:

**-Axis of technological infrastructure**, which comprises the development/adaptation of an e-learning technological platform and its connexion and implementation with specific training equipment. This training equipment in addition to industrial equipment will constitute the Remote Workshop of training in the fields of the telematic communications (ICT), telephony and microprocessors. The Remote Workshop of Communications (REWORCOM) is accessible via the Internet, favouring the learning process and the connectivity between the educative institutions.

**-Axis of quality contents**, focused on the strategy aimed to promote the activities of knowledge generation and diffusion.

**-Axis of organisation and processes** is focussed on three action lines: program networks of educative technology in vocational training, educative networks for students and



teachers and the observatory of information and communication technologies (ICT).

The development of three training models will be added to this platform for the training in Telephony, Telematics and Microprocessors systems.