

FLEXFORM-PROFESSIONAL TRAINING PROGRAMME USING MECHATRONIC PLATFORMS

Goal of the project

The main goal of the project consists in the elaboration and implementation of a flexible training programme using mechatronic platforms destined to upper secondary school teachers, to develop competency in applying modern educational technologies and to increase efficiency within the teaching & learning process.

Short description of the project

Seven new regional centres in education and flexible professional training were established, using the existing structures of the departments of mechatronics, including the centre in Timisoara (for the counties Timis, Arad, Hunedoara and Caras-Severin). These are nationally accredited structures being in charge with the implementation of the training programme over the associated regions.

The network running mode offers a systemic approach that integrates training activities and guarantees an improvement of the programme management. A Virtual Centre for Competencies in Mechatronics was created; it includes libraries, knowledge-base, virtual labs, training packages. FLEXFORM Programme comprises three modules of continuous education, accredited by National Education Ministry, summarizing 65 credit points.



Main activities

FLEXFORM offers the following modules of hybrid courses:

1st module: Informatics and educational technologies (25 cp)

- C1: Applied informatics in education and training (38 h);

- C2: Interactive environments and educational technologies (38 h).

2nd module: Mechatronics I. Mechatronic platforms for education and flexible training (25 cp):

- C3: Technology and education in mechatronics. Sustainable development (38 h);

- C4: Methods and techniques of innovation and creativity (38 h).

3rd module: Mechatronics II. Technological development and educational technologies within the knowledge-based society (15 cp):

- C5: Technological development and educational technologies (38 h).

Evaluation is sustained at the end of the training program, by a public presentation of a thesis for each module.

Project implemented by

Department of Mechatronics in UPT, Project n. POSDRU/87/1.3/S/64069

Implementation period

01.Sept.2010-16.Jan.2014

Research centre

Center for eLearning

Results

186 graduates from all the counties covered by the regional centre Timis, lectures and labs created by the team of experts, uploaded on the virtual centre platform.

Applicability and transferability of the results

Professional training in mechatronics for any teacher in secondary schools of Romania and for any trainer in mechatronics.



Fields of interest

Education and training in mechatronics, educational technologies.

Research team

Regional managerial component (Valer DOLGA, Lia DOLGA, Daniela HUDAC, Dorina RUSSET), short term experts as course lecturers (Arjana DAVIDESCU, Andreea DOBRA, Adriana T EODORESCU, George SAVIL, Iosif CARABAS, Valentin CIUPE, Cristian MOLDOVAN) and an administrator (Ioan CRAFT IU).



Financed through/by

Government of Romania, European Structural Fund POSDRU 2007-2013.

Contact information

Prof. Valer DOLGA, PhD
Department of Mechatronics
Address: Bd. Mihai Viteazu, No.1, RO300222, Timisoara
Phone: (+40) 256 403 554.
E-mail: valer.dolga@upt.ro