

Science Actor – Workshop on Goerudio Method

21.04.2015 - Iasi, Romania

Minutes

Participants

The Goerudio workshop called “Science Actor “ has been organized by EuroEd in collaboration with the Vasile Alecsandri High School and involved 27 participants (26 students from 10th grade and 1 teacher of Physics).

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The focus of the workshop was to support the students of one of the schools involved in the Goerudio network in finding out more about the Goerudio project and its objectives and discuss about the best ways to attract students to learn science disciplines and to understand easier the theoretical knowledge. The main aim was to involve the students in brainstorming and creating Goerudio models on the spot.

The first topic of the workshop was the presentation of the Goerudio project. EuroEd representative presented the general idea of the project and the activities proposed. The following data have been introduced: The aim of the project - to create a learning community of science teachers and students willing to identify solutions to overcome the main obstacles when studying scientific subjects and development of innovative teaching methods for science; The project activities and results - Action 1:Creation of school network (35 schools, 70 scientific teachers, 1400 students); Action 2:Teacher (350) and students Experiences (700); Action 3:Identification of project initiatives (210); Action 4:Review of the initiatives; Action 5: Participation in a virtual meetings; Action 6: Communication campaign; Action 7:Development of interactive educational products.

Participants discussed on the science disciplines and the teaching/learning methods used at class by sharing their experiences. The discussion offered the possibility to students to speak about their difficulties in learning and understanding science disciplines and to propose suggestions on how to make the class lessons more attractive. Students agreed on the fact that teachers must try to explain everything in a clear and simple way, they have to use experiments to make it clear and engage students in lots of activities which made the lessons very pleasant and interesting.

To support the participants to understand more the Goerudio project, the 2 staff members presented the Goerudio model and approach proposed for learning sciences. Goerudio has been presented as a learning methodology that is based on user involvement in its application and subject matter development. The program enables the user to explain complex formulas, physics laws and concepts presented by teachers with simple and familiar examples that are readily understood. Participants were involved in discussions about comprehension as the ability to find, evaluate, compare, manage the received information and pass it over to others. Necessary level of comprehension provides efficient communication within a specified group of individuals (school, conference, university, etc.). Poor understanding is a result of poor communication. To attract and make the pupils understand, a serial of models - drawings developed within the project have been presented.



Within the working group activities, students and teachers were involved in brainstorming ideas and work together in creating Goerudio models. As result of this activity the group came with the scenarios for 3 videos that show the following science notions: Electric circuit in parallel, Electric circuit in series, Resistor.

After the scenarios have been set up, students worked to create the Goerudio model by becoming science actors for the videos that presents an interactive activity held by a group of students simulating the process of production of electric circuits.

As conclusion of the workshop, students discovered that physics can be fun and can be learned easier through interactive activities. By becoming actors in the learning process, students were more motivated to focus on the lesson and achieve the knowledge.

Annexes

1. 3rd Seminar_RO_Programme
2. 3rd Seminar_RO_List of participants
3. 3rd Seminar_RO_Photos
4. 3rd Seminar_RO_Products (3 videos: Goerudio Model_Electric circuit in parallel; Goerudio Model_Electric circuit in series; Goerudio Model_Resistor)