Geophysical Research Abstracts Vol. 18, EGU2016-15887, 2016 EGU General Assembly 2016 © Author(s) 2016. CC Attribution 3.0 License.



Virtual strategies to improve transversal competences, using wikis in a collaborative work

Marta Guinau (1) and Elisabet Playa (2)

(1) Universitat de Barcelona, Facultat de Geologia, Geodinàmica i Geofísica, Barcelona, Spain (mguinau@ub.edu), (2) Universitat de Barcelona, Facultat de Geologia, Geoquímica, Petrologia i Prospecció Geològica, Barcelona, Spain (eplaya@ub.edu)

A major educational aim in university degrees since the implementation of the European Credit Transfer System (ECTS) on the European universities is the work based on transversal competences. However, the first course students arrive at the Spanish universities with important deficiencies on some of these competences, especially regarding on oral and written expression, time management and collaborative work. The experience of the teachers involved in this work has revealed the coordination difficulty between the students to work in group, important deficiencies on information management and the stress caused by the oral presentations. The results presented here correspond to a teaching innovation project. It is based on: a) the development of works in groups of 3 or 4 students, proposed as flipped classrooms strategy and b) the implementation of a virtual tool (a wiki). This tool helps the students with scientific information management and facilitates the access of all the students belonging to the work group at the information provided by colleagues. The wiki also improves the monitoring and evaluation of the work and contributions of each student by teachers. Each group must develop a topic related to the subject – General Geology and Geochemistry – that the group chose from a list of earth sciences topics proposed by teachers. The resulting works are presented in poster and oral presentations (10 min. per group and 5 min. for questions). Each work is evaluated by teachers using the evidences provided on the wiki and by means of evaluation guides. Moreover, the students must self and co-evaluate the presented works. The implementation of this project has provided information to analyze the impact of these strategies and to quantify it in terms of 'Learning Analytics'.