Block #1 Introduction. Monday 7th September 15.15-17.00 in BIKUPAN

Lecture 1: Introduction to “Science Education for postgraduate/doctoral students”

Students are requested to read the following paper: Schneider, B., Wallace, J., Blikstein, P., Pea, R., 2013. Preparing for Future Learning with a Tangible User Interface: The Case of Neuroscience. IEEE Transactions on Learning Technologies 6, 117-129.10.1109/TLT.2013.15

The paper will be used in the discussion following the lecture.

In preparation for the next block students need to send in Assignment 1, the day before the seminar in Block 2. Handing the assignment is obligatory to attend the seminar

Block #2 Facilitating learning

This block contains two different activities on different days

Seminar 1. Monday 28th September 15.15-17.00 in BIKUPAN

The seminar discussion will be based on your Assignment 1 essays

Lectures 2 and 3. Tuesday 29th September 8.15-10.00 in BIKUPAN

Lecture 2: The teacher as a facilitator of learning and
Lecture 3: Student centered education

Block #3. Alternative Conceptions.

Wednesday 14th October 8.15-10.00 in BIKUPAN

Lecture 4: Addressing alternative conceptions in physics, chemistry and biology

After the lecture instructions will be given for the elaboration of Assignment 2 “How can I help my students to properly learn a concept that I think is an alternative conception?”

Alternative conceptions Seminar. Monday 30th November 15.15-17.00 in BIKUPAN

Oral presentation of Assignment 2 will take place during the seminar


During the months of September-December (or later if you have discussed this with the course responsible), in combination with some teaching activity, you should plan, execute the teaching and then reflect on it in a written assignment (Assignment 4).

You will also attend the teaching of another student and provide feedback on it (Assignment 3).

The feedback meeting should be attended by the course responsible and the student involved.