H01: Problem Based Learning

This third lesson is based on the constructivist learning paradigm which provides a contemporary approach for creating active and situated learning environments in higher education. Resulting from L02: Learning Theories and Approaches of Student's Learning we can summarize so far that

- there is no knowledge (construction) without meaning from experience the learner discovers by himself/herself;
- the shift from teaching to learning means that our focus on teaching in higher education should be on the learner and his/her learning and not on subjects, contents, bodies of knowledge… etc. to be taught.

Originating from the discussion in W02-1: Shift from Teaching to Learning the question arose how activating learning environments in higher education should look like in order to foster students active thinking and self-paced learning therefore?

Things we cover in this session

- Introduction to the instructional method of Problem-based Learning (PBL)
- How to design problem-based learning environment in higher education.

Things you need for this session

- W01-1: Your first PBL "Seven Jump"

Things to take home from this session

At the end of this session you should be able to

- describe the basic concepts of PBL
- apply the PBl-Cycle to a topic of your subject or professional field
- discuss and value PBL as vehicle for active learning in higher education settings

Slides

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Hungry minds

Since the story of PBL is so extensive, it is worth reading further at this point. Here are some selected sources to start with:

- Duch, B.J., S. E. Groh & D. E. Allen (2001): The Power of Problem-based Learning. Stylus Publishing, LLC.
- Hung, W., Jonassen, D. H. & R. Liu (2008): Problem-Based Learning. In: Spector, J. M., Merrill, M. D., Merriënboer J.van & M. P. Driscoll (eds.): Handbook of Research on Educational Communications and Technology, Taylor & Francis Group LLC, p. 485-506
- Kwan, A. (2009): Problem-based Learning. In: Tight, M., Mok, K. H., Huisman, J. & C. C. Morphew (eds.): The Routledge International Handbook of Higher Education, New York (Routledge), p. 91-108.
- Savery, J. R. (2015): Overview of Problem-Based Learning: Definitions and Distinctions. In: Walker, A., Leary, H., Hmelo-Silver, C. E. & P. A. Ertmer (eds.): Essential Readings in Problem-Based Learning, Purdue University Press, p.5- 16.

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