

2nd Workshop – Problem-Based Learning, online quizzes and logical tasks

Session 1: Introduction to Problem-Based Learning (PBL)

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Expected Learning Outcomes

- 1. Demonstrate competence in the principles, process and application of Problem-Based Learning in learning situations/scenarios.
- 2. Use the principles pf PBL to design lessons for stimulating Algorithmic thinking in problem solving engagements.

Teaching Methods/Approaches

- 1. Facilitator presentation/instructions
- 2. PBL Case illustrations and demonstrations
- 3. Practical activity by participants
- 4. Peer-review and reflection activities

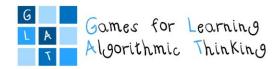
Sources of training materials

- 1. Video "Learning scenario designing environment LePlanner.net". Available: https://vimeo.com/168032150 (Accessed: 20.8.2018.)
- 2. LePlanner. Available: https://beta.leplanner.net/#/ (Accessed: 20.8.2018.)
- 3. Rõbtšenkov, Romil: LePlanner a tool for creating learning scenarios.

 Available: http://htk.tlu.ee/event/wp-content/uploads/2016/05/romil robtsenkov.pdf (Accessed: 20.8.2018.)
- 4. Clayton, Graham & Pierpoint, Peter: Problem Based Learning: A Would-be Practitioner's Guide, University of Plymouth Business School, 1996 Available: http://www2.uwe.ac.uk/faculties/BBS/BUS/Research/NTFS/problem.pdf (Accessed: 20.8.2018.)
- 5. Christiansen, E. T., Kuure, L., Mørch, A., & Lindström, B. (Eds.): PROBLEM-BASED LEARNING FOR THE 21st CENTURY: New Practices and Learning Environments (1 ed.), Aalborg Universitetsforlag, 2013.
 - Available: http://vbn.aau.dk/files/187818413/PROBLEM_BASED_LEARNING_FOR_THE_21st_CENTURY_WEB.pdf (Accessed: 20.8.2018.)
- 6. Jurković, Violeta. (Ed.): Guide to Problem-Based Learning, Ljubljana: Slovene Association of LSP Teachers. 2005. Available: http://www.sdutsj.edus.si/SDUTSJ Guide %20to %20PBL.pdf (Accessed: 20.8.2018.)

Duration: 60 minutes

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Topic/Sub-topics	Learning Objectives	Evaluation
1. INTRODUCTION TO PROBLEM-BASED LEARNING	Participants will able to demonstrate competence in using the principles and process of the PBL approach to solve problems.	Learners explore and distinguish PBL from other learning approaches; and argue for its
1.1 Problem-Based Learning Explained (definition and descriptions)	1. Explain and describe PBL – with the emphasis of relevant descriptors.	relevance or otherwise – relative to the various learning scenarios.
1.2 Key principles of Problem-Based Learning	2. Identify and describe the key principles and characteristics underpinning PBL	
2. PRACTICAL – HANDS ON PBL ACTIVITIES	Participants to engage in identification PBL related cases, demonstrate ability to address them and review proposed solutions.	Learners identify, real life or learning cases where PBL is applicable, define the problem and use PBL
2.1 Modelling PBL approach in conceptual problem cases/learning scenarios.	1. Identify real life and learning cases and where PBL could be applied.	
	2. Propose process and procedures in the PBL approach.	Engage in peer-reviewing of proposed or administered solutions.
2.2 Designing a PBL Scenario using LePlanner.	Demonstrate how to create PBL scenario using LePlanner.	

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