

Teaching and Learning UNITE!

Pedagogical Activity

7

Getting started with Project Based Learning

Contact person:	Miguel Valero
Trainers:	Dr. Miguel Valero (UPC) and Dr. Paco Calviño (UPC) email: miguel.valero@upc.edu
University:	Universitat Politècnica de Catalunya · BarcelonaTech (UPC)
Dates and times:	The activity will start the 26th of May 2021 (with some autonomous preparatory work). Virtual sessions will be: 31th of May 2021 (10.00am - 11.30am CET), 2nd of June and 7th of June 2021 (10.00am - 12.00pm CET). The activity will finish 15th of June 2021 (delivery of some autonomous work).
Estimated workload:	14h (5h 30m in three on-line sessions and 8h 30m of autonomous work)
Maximum participants:	20
Format:	Online (Zoom & Moodle UPC Atenea)

Registration Details:

Registration link	https://www.upc.edu/ice/ca/noticies/pedagogical-modules
Registration opens	February 29th 2021
Registration closes	April 29th 2021

Pedagogical activities are part of a good practice teaching and learning initiative to enhance our understanding of learning cultures in the UNITE! network of universities.



Overview and aim

The aim of the workshop is to prepare participants to take the first steps in using project-based learning (PBL). The workshop will discuss the basics of the methodology and conduct an exercise for designing a modest PBL activity that incorporates the basic elements.



Target group and prerequisites

Faculty, lecturers and teachers of UNITE! partner universities who do not have experience in using PBL and want to know about it and start using it.

Keywords

Active methods, cooperative learning, project based learning, positive interdependence, assessment of products and skills.



Learning Outcomes (LOs)

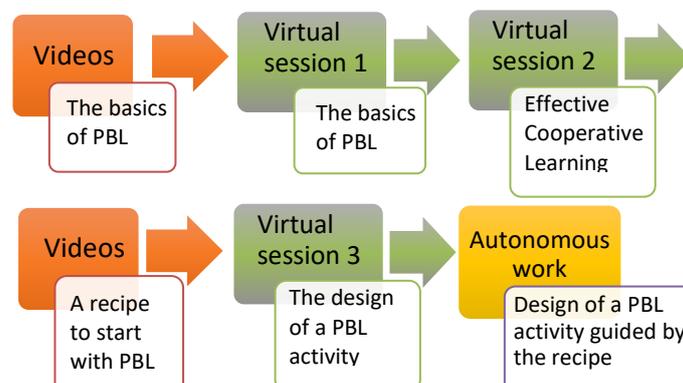
A successful participant will be able to:

- Define PBL and discuss its advantages and main difficulties.
- Explain the key elements to be considered when designing a PBL activity.
- Design a PBL activity that includes the key elements for success.



Activity overview

The workshop is organized into 6 steps shown in the figure:





Content

1	Watch a collection of videos on the basics of PBL (1h)	
		
2	Virtual session 1 (1h 30m): The basics of PBL	
		
		
	Welcome & introduction to the workshop	
	Discussion in small groups on the content of the videos about the basics of PBL	
	Discussion in the whole group	
	Break	
	More discussion in the whole group	
3	Virtual session 2 (2h): Cooperative learning activity (based on the jigsaw puzzle by Aronson) to learn about key ingredients for PBL.	
		
		
	Welcome & session presentation & distribution in small jigsaw groups	
	Individual task (read a part of the material)	
	Expert meetings	
	Sharing in jigsaw groups	
	Discussion in the whole group	
4	Watch a collection of videos on a particular recipe to design a PBL activity for (1h 30m).	
		
		



5 Virtual session 3 (2h)



Welcome & session presentation & Distribution in small groups



Clarification of doubts on the recipe in the whole group



Small groups design a PBL activity guided by the recipe



Discussion in the whole group



6

Each participant designs an activity for his/her own teaching, using the recipe (6h). The workshop leaders would give feedback on this work.



Learning resources



The collection of power points to be used during the workshop



Readings on the key ingredients for cooperative learning



Worksheets for the design of a PBL activity



Videos explaining the basics of PBL and the proposed recipe to design a PBL activity



Assessment requirements and strategy

The workshop will be assessed and certificated on the basis of attendance and participation in virtual sessions and completion of the final exercise (designing a PBL activity).



References

Project Based Learning. A guide to standards-focused project based learning for Middle and High School Teachers. Buck Institute for Education 2003

R.M. Felder, R.M., Brent, R., "Effective Strategies for Cooperative Learning." *J. Cooperation & Collaboration in College Teaching*, 10(2), 69-75 (2001)