Case study on Adopting Self-paced e-Learning for Teacher Training of Vocational and Professional Education and Training (VPET)

Patsy Pui Sze Leung & Cherrie Hiu Tung Kung

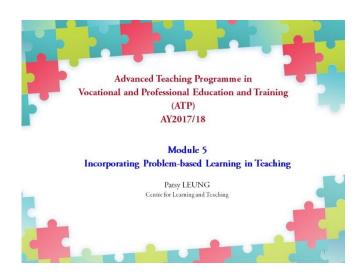
1 June FSTE Conference 2018



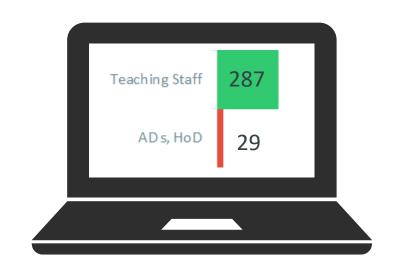
About This Study

Aims

- Identify teacher learning preferences for teacher training
- Learn about teacher perceptions of using self-paced e-Learning for teacher training in one of the training modules named "Incorporating Problem-based Learning in Teaching" in the "Advanced Teaching Programme" offered by Centre for Learning and Teaching of the Vocational Training Council
- Evaluate the effectiveness of the self-paced e-Learning module



Research Design



ONLINE SURVEY

To understand the views at management level and teaching staff **learning preferences** and **perceptions** towards the use of self-paced e-Learning as a teacher training mode



VARIOUS SOURCES OF QUANTITATIVE AND QUALITATIVE DATA

To evaluate the effectiveness of the self-paced e-Learning training method

Packed teaching schedule (1)



16-20 hours

61.67%

Fewer training hours

If there would be a training programme for advancing your skills in VPET teaching, how long would you consider appropriate for the whole programme?



(Please consider total duration including face-to-face sessions and extended learning activities)

21-25 hours	26-30 hours	Others (Please specify):
17.77%	17.42%	3.14%

Packed teaching schedule (2)



Training outside normal working hours

What is/are the preferred time slot(s) for the programme to be (More than one option can be chosen)

Weekday	Weekday	Weekday	Saturday
Morning	Afternoon	Evening	Morning
34.5%	72.4%	34.5%	41.4%





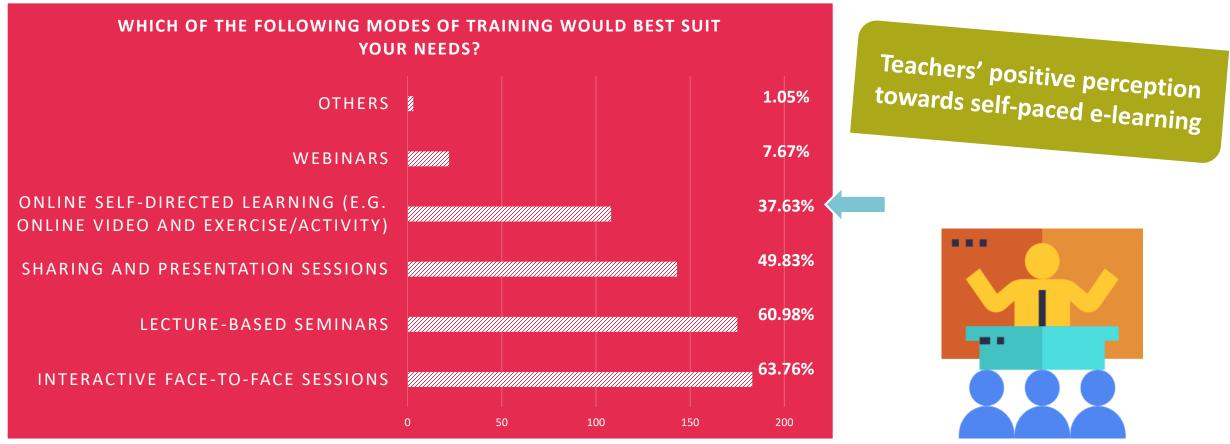
Staff prefer weekdays but may not be feasible due to the vacked timetable.

Teachers' learning preferences for teacher training



Which of the following modes of training would best suit your needs?

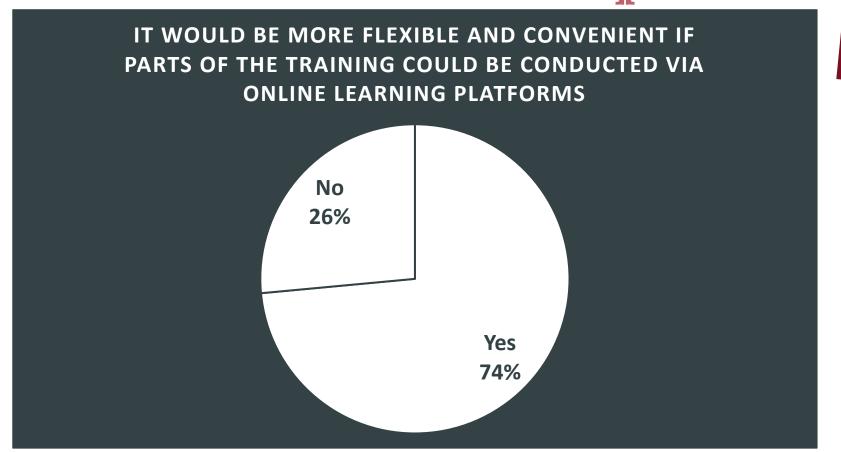
(More than one option can be chosen)



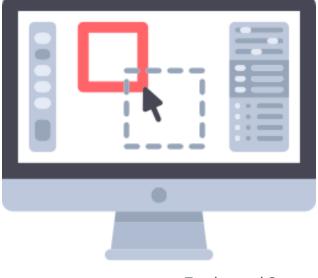
Teacher and Lecturer: Icons made by Freepik and Becris respectively from www.flaticon.com.

Management and teachers perception over the use of self-paced

e-learning for teacher training (1)



More flexible and convenient



Teacher and Computer:

Icons made by Freepik from www.flaticon.com.

Management and teachers perception over the use of self-paced

e-learning for teacher training (2)



Enrich e-Learning skills



6-point Likert Scale(6: strongly agree;1: strongly disagree)

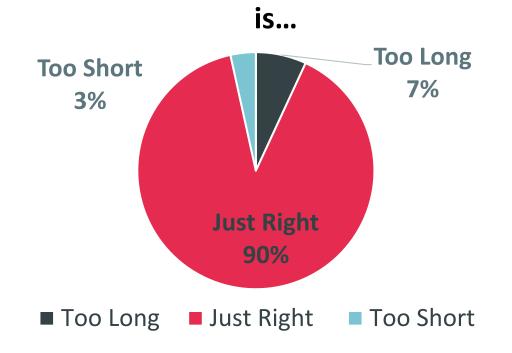
4.8

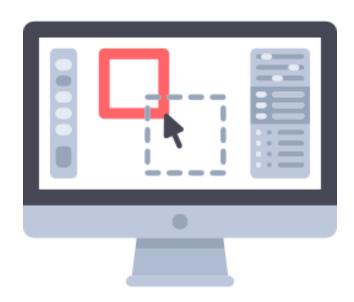
The design of mini- Massive Open Online Course (MOOCs) and a project in self-paced learning could enrich teaching and instructing staff's learning experience.

- 1. Depends on the content and style of delivery, ensure it is stimulating and interesting.
- 2. Seems heavy workload
- 3. Wonder whether feedback from colleagues will be collected, say half year or one year later, after completion of the programme

Management and teachers perception over the use of self-paced e-learning for teacher training (3)

The length of the self-paced learning (6 hours)



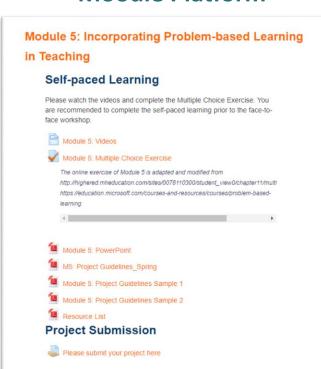


Programme Structure "Advanced Teaching Programme" Offered by Centre for Learning and Teaching, VTC

	Title	Face-to-Face Contact (Hours)	Self-paced Learning		
Module			e-Learning (Hours)	Project (Hours)	
1	Current Learning and Teaching Initiatives in VPET	3			
2	Enhancing VPET Teachers' Practical Skills	2	1		
3	Facilitating ICT-enabled Collaborative Learning	2	1		
4	Fostering an Inclusive Classroom	3			
5	Incorporating Problem-based Learning in Teaching		1	2	
6	Elective VPET Topic	3			
	Sub-total Hours	13	3	2	
	Total Hours		18		

Self-paced e-Learning Training Module

Moodle Platform



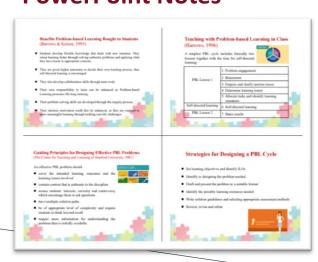
Videos



Online Exercises



PowerPoint Notes



Resource List

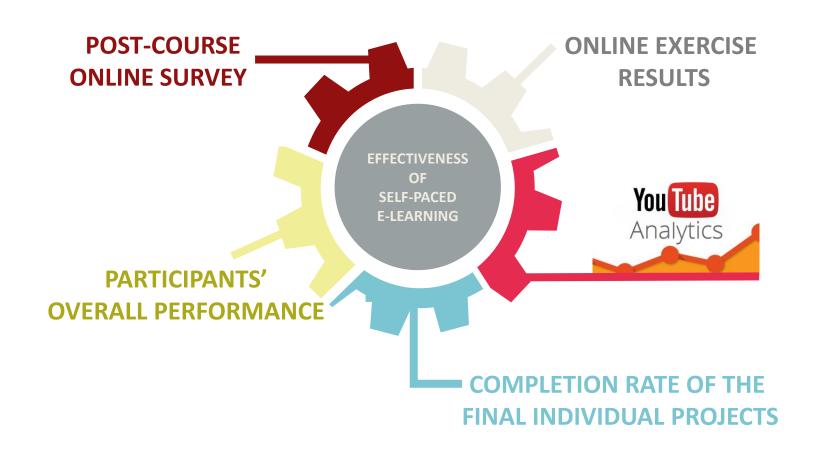


Project Guideline and Samples



Research Design

TO EVALUATE THE EFFECTIVENESS OF THE SELF-PACED E-LEARNING TRAINING METHOD



Module 5: Incorporating Problem-based Learning in Teaching

Advanced Teaching Programme (ATP) [Autumn] 24 Oct 2017 to 28 Feb 2018



 42 teachers enrolled in the ATP programme



- Online exercise completion rate: 29 (69%)
- Average score: 70.69/80 (88.4%)
- Full marks: 14/42 (33.3%)



- Individual project: To design a PBL cycle
- Completion rate: 28 (66.7%)

Findings of the Post-course Online Survey



5-point Likert Scale(5: strongly agree;1: strongly disagree)

4.15

4.23 Q.1 The module was well-structured.

4.19 Q.2 The content was relevant and achieved its stated learning outcomes.

Q.3 The module was well-facilitated. (e.g. use of examples and scenarios, and online activities).

Findings of the Post-course Online Survey



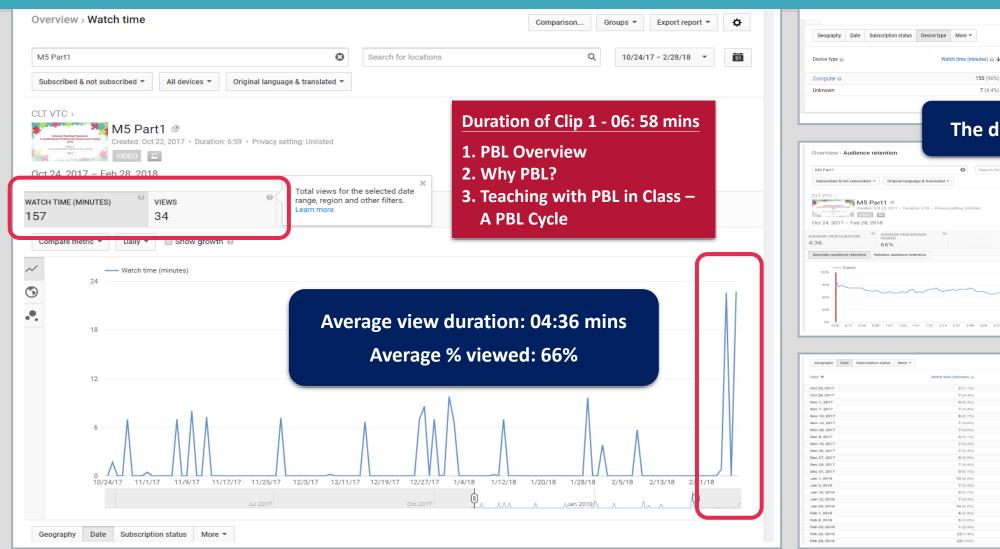
5-point Likert Scale(5: strongly agree;1: strongly disagree)

- Q.4 The module provided quality materials and resources. (e.g. PowerPoint, resource list, individual project samples
 - 4.19 Q.5 OVERALL, I am satisfied with this module.

- Q.6 The videos, the materials and the resources supported my completion of the individual project.
 - 1. The module was useful for me to develop my teaching skills in the future.
 - 2. The feedback is very useful to improve my teaching.

YouTube Analytics: Teachers' Self-paced e-Learning Behavior

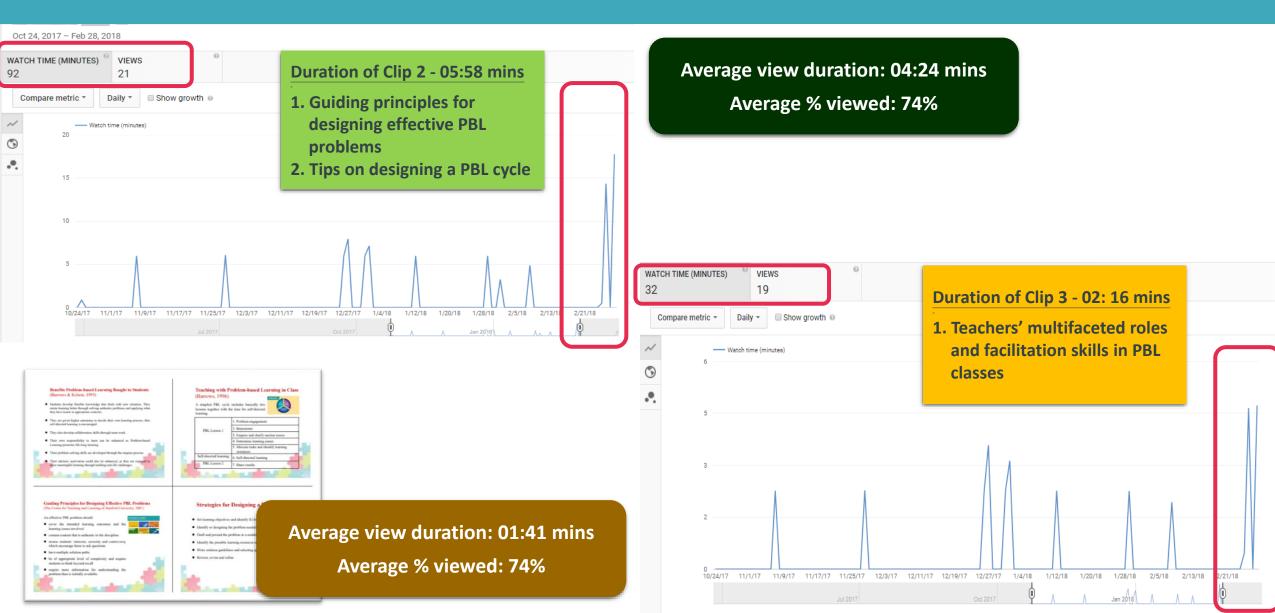
Module 5: Incorporating Problem-based Learning in Teaching





YouTube Analytics: Teachers' Self-paced e-Learning Behavior

Module 5: Incorporating Problem-based Learning in Teaching (Clips 2 & 3)



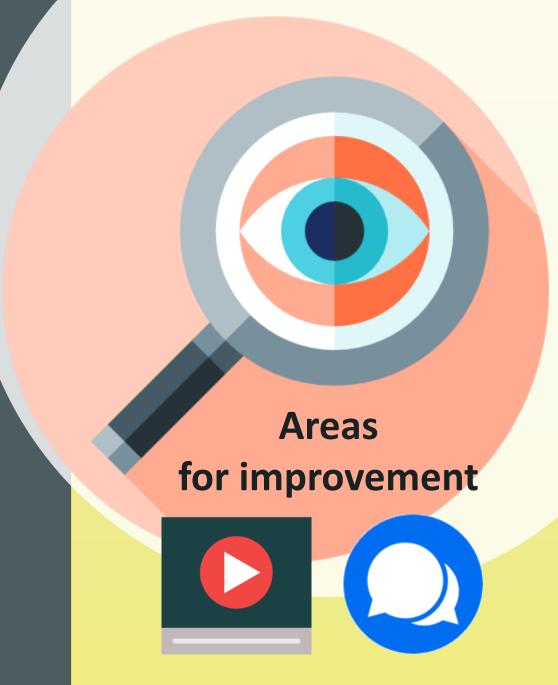
Overall Performance of the Individual Projects Subjected by Participants

- 30 participants submitted their individual projects
- Most of them were able to:
 - design a PBL problem which was manageable for students and with appropriate degree of "openness" for students' discussion and collaboration.
- 28 out of 30 participants completed the individual project.



Conclusion

- Acceptance of self-paced e-Learning was high.
- Self-paced e-Learning was perceived as an effective mode of teacher training.
- Participants were in favor of selfpaced e-Learning training if there were sufficient and multiple online learning materials to support their learning.



Thank you very much!