

Agenda

- Background
- The Project
 - Objectives
 - GMoodle
- Our Results
- Conclusion

Background

- Current issues of group assessment
 - Group formation
 - Diffusion of responsibility in groups
 - Progress monitoring
 - Bias in peer review (Ashenafi, 2015; Dochy et al., 2006; Topping, 2005; Falchikov & Goldfinch, 2000)
 - Free riders

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The Project





Department of Mathematics and Information Technology, The Education University of Hong Kong

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The Project



Teaching Development Grant 2018/19

Period: July 2018 – June 2019 (12 months)

Members: 10 academic staff, 4 undergraduate students and 3

research assistants

Participants: 337 undergraduate students

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OBJECTIVES



INTERACTION

Promote active and collaborative learning environment through peer online interaction



PARTICIPATION

Increase the level of participation of group members in learning activities

IMPLEMENTATION

Implement an online evidencebased assessment system for group projects and activities



FAIR ASSESSMENT

Perform a fair and reliable peer assessment to reflect individual's contribution within a group



PROJECT SCHEDULE



July 2018 – June 2019 (12 months)

Period (MM/YY)	Work plan / Activities	
07/18 – 09/18	 Design and Construct the Online Evidence-based Assessment System Prepare survey questions for pre/post test Provide training workshop for the involved teachers 	
09/18 – 11/18	Phase I Testing: Use the Online Evidence-based Assessment System in 6 courses	
12/18	Collect feedback from Phase I - Fine tune the system	
01/19 – 05/19	Phase II Testing: Use the revised system in 4 courses	
05/19 – 07/19	 Perform data analysis with the activity log data Focus group interviews with students for investigating the effectiveness of the system Collect sample course plans from teachers for the sharing session 	
05/19 – 08/19	Sharing sessions	

Camoodle

https://gmoodle.eduhk.hk

Topogram





GMoodle vs. Moodle		
	GMoodle	Moodle @ EdUHK
Common activities: • Assignment, Chat, Choice, Database, Feedback, Forum, Glossary, Group choice, Lesson, Quiz, SCORM package, Survey, Wiki, Workshop	√	√
Wiki with individual contribution %	✓	*
Progress report (individual and group)	✓	(not easy to read)
Turnitin assignment	🗴 (pilot)	✓
Single Sign-On login	🗴 (pilot)	✓



PRE-TEST & POST-TEST SURVEY



Communication / Problem-solving / Collaborative / Self-management skills

- a) Communication skills
- 1. I can communicate effectively with my groupmates
- 3. I am good at understanding of others' points of views
 - b) Problem solving skills
 - 2. I am competent in solving the problems in my group, and can take initiative to resolve issues
 - 5. I think online learning tools (such as Moodle, Google Docs) can help to finish group project effectively
 - 12. I have a strong sense of accomplishment relative to our group work
- c) Collaborative skills
- 1. I can communicate effectively with my groupmates
- 3. I am good at understanding of others' points of views
- 7. I am clear about the contribution of everyone in the group, and avoid duplication of effort
- 8. I can establish trusting and supportive relationships with my groupmates
- 9. I usually seek and give my groupmates constructive feedback
- 10. I can collaborate effectively with my groupmates
- 11. I can identify free rider in my group before completing the project
- d) Self-management skills
- 4. I take responsibility for my own learning in the group
- e) Others
- 6. I prefer online discussions more than face-to-face meetings

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Evaluation of GMoodle's features 100.00% 90.00% 80.00% 70.00% 60.00% 50.00% 40.00% 30.00% 20.00% 10.00% 0.00% I think the I think the I think the I think GMoodle I think GMoodle I think GMoodle The learning "forum" feature "Wiki" feature can help me can help me "chatroom" can help me experience in in GMoodle is deal with the identify free feature in in GMoodle is achieve our GMoodle help useful. GMoodle is useful. difficulties in rider(s) in my group goal. me in future useful. forming groups teaching career. group.





t-test with SPSS

Semester 1, 2018-19

0.373

62.7% Confidence level

Semester 2, 2018-19

0.174

82.6% Confidence level

Overall (Sem1 + Sem 2)

0.744

0.178

0.163

0.064

25.6% Communication skills 82.2% Problem solving skills 83.7% Collaborative skills 93.6% Self-management skills

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FEEDBACK FROM FOCUS GROUP INTERVIEW

STUDENTS' PERSPECTIVE

Understand the progress of oneself and group mates



Consolidate information and share ideas easily

Can identify freeriders Some of the features are similar to Moodle



CONCLUSION



This study showed that GMoodle can

- help students improve their problem solving, collaborative and selfmanagement skills;
- · encourage collaboration in group learning activities;
- · review learning goals and progress;
- · motivated students with participation score;
- identify free-rider;
- inspire them using online collaborative learning in the future teaching career.



