Self-directed deep learning with a peer-to-peer challenge: evaluation of e-learning at HKUMed

BLENDED LEARNING APPROACH



Interactive Forum

Live active learning sessions



Instructional

videos with





Online Forum

Asynchronous forum discussions on Moodle (LMS) Does a switch to e-learning impact student learning?





AIM:

Evaluate students' study process and experience in order to understand the impact of e-learning initiatives

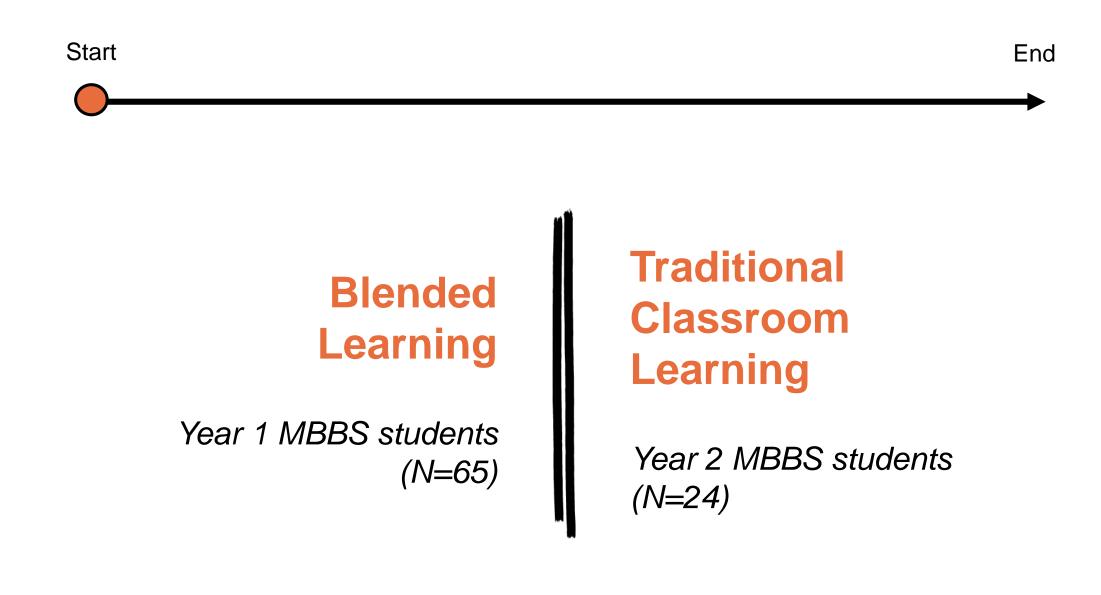


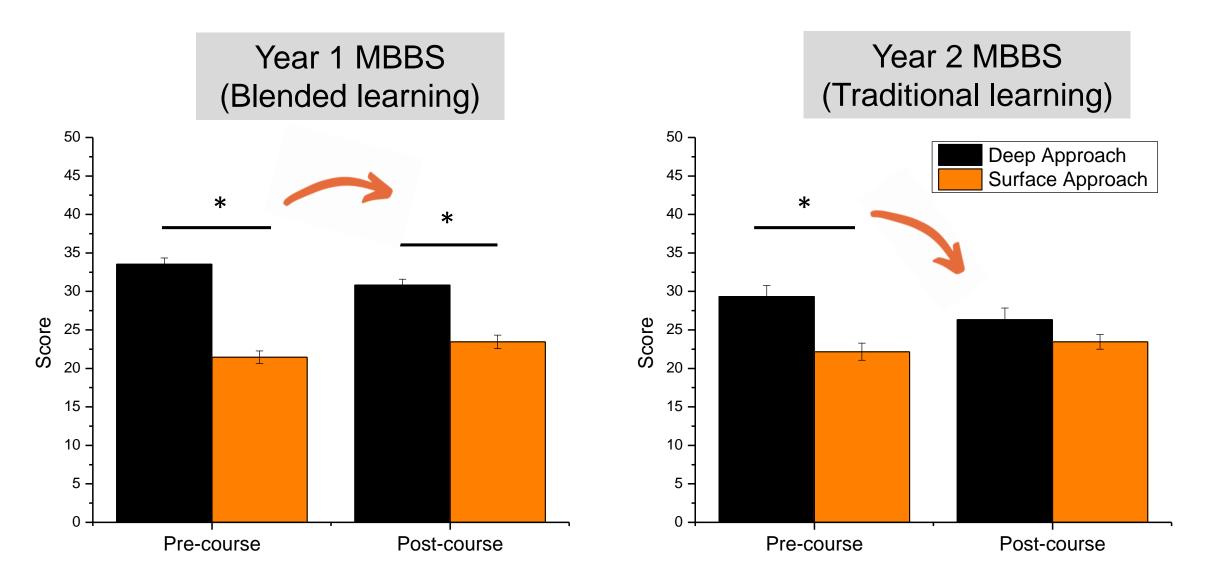
- SURFACE / DEEP LEARNING
 (REVISED STUDY PROCESS
 QUESTIONNAIRE, R-SPQ-2F)
- 2 LEARNING EXPERIENCE (QUESTIONNAIRE)
- 3 LEARNING EXPERIENCE (IN-DEPTH INTERVIEWS)

SURFACE/DEEDS



Revised Study Process Questionnaire (R-SPQ-2F)





*P<0.005

STUDENT **PERCEPTION** *avantitative evaluation* Learning Experience Questionnaire

Blended Learning

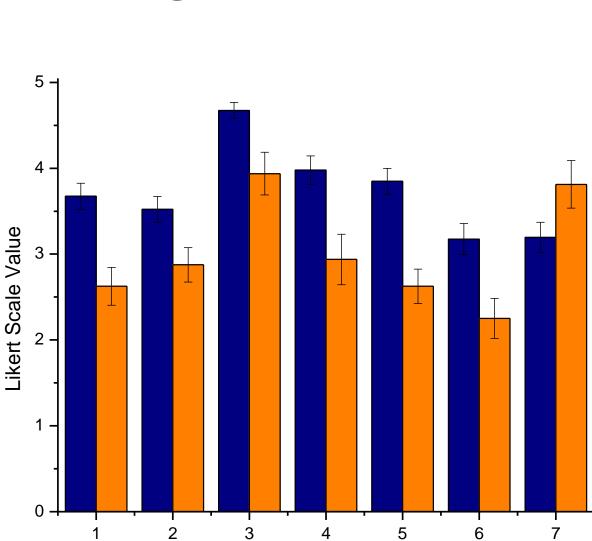
Year 1 MBBS students (N=46)

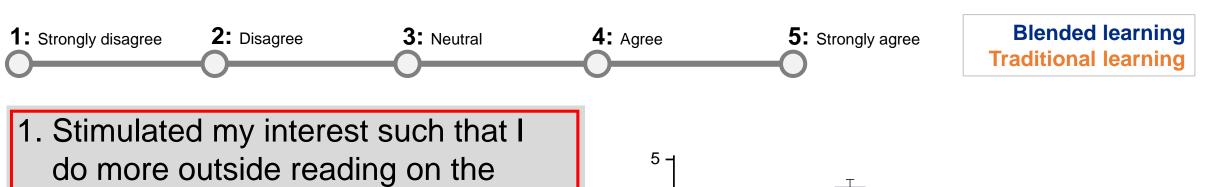
Traditional Classroom Learning

Year 2 MBBS students (N=16)

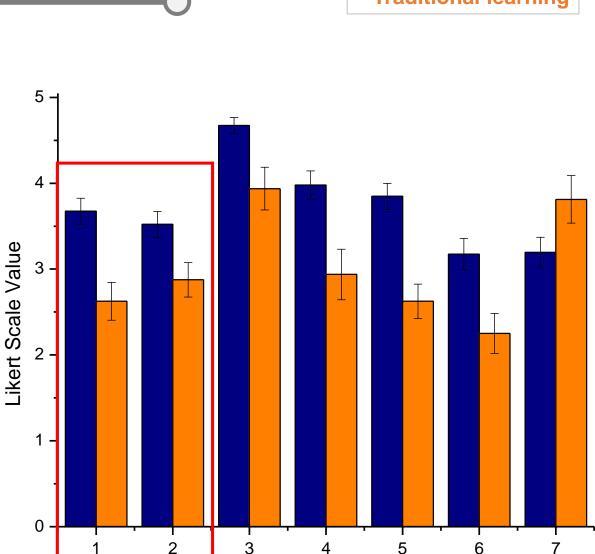


- Stimulated my interest such that I do more outside reading on the subject.
- 2. Encouraged me to ask questions about issues and topics in this field.
- 3. Allows me to develop autonomy in learning.
- 4. Has a manageable workload.
- 5. Provides good quality feedback.
- 6. Provides good lecturer-student interactions.
- 7. Provides good student-student interactions.



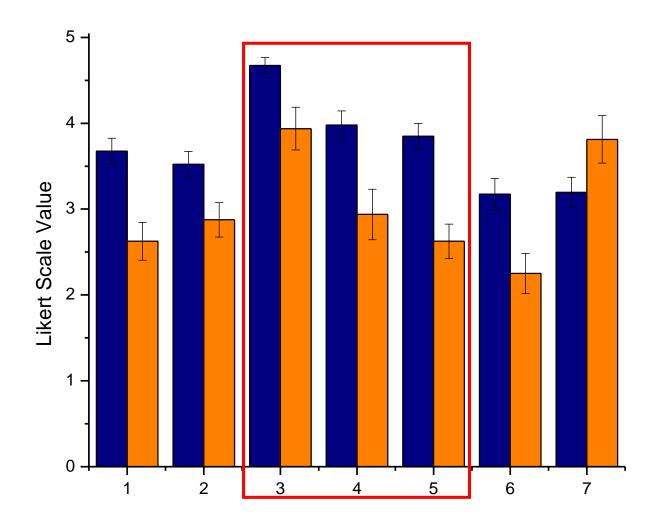


- subject.
- Encouraged me to ask questions about issues and topics in this field.
- 3. Allows me to develop autonomy in learning.
- 4. Has a manageable workload.
- 5. Provides good quality feedback.
- 6. Provides good lecturer-student interactions.
- 7. Provides good student-student interactions.



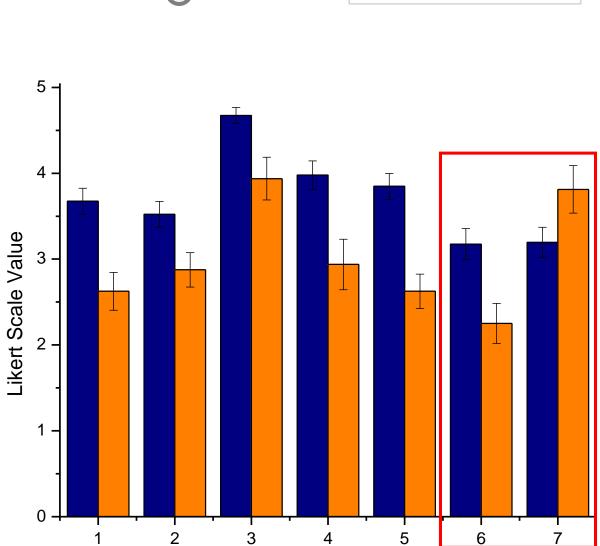


- Stimulated my interest such that I do more outside reading on the subject.
- 2. Encouraged me to ask questions about issues and topics in this field.
- Allows me to develop autonomy in learning.
- 4. Has a manageable workload.
- 5. Provides good quality feedback.
- 6. Provides good lecturer-student interactions.
- 7. Provides good student-student interactions.



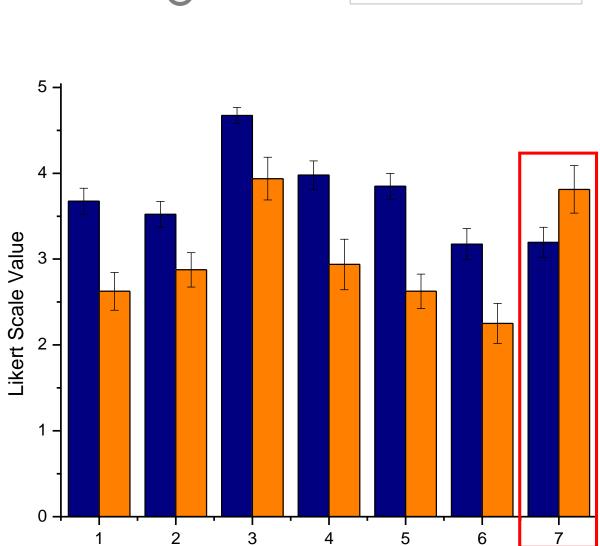


- Stimulated my interest such that I do more outside reading on the subject.
- 2. Encouraged me to ask questions about issues and topics in this field.
- 3. Allows me to develop autonomy in learning.
- 4. Has a manageable workload.
- 5. Provides good quality feedback.
- 6. Provides good lecturer-student interactions.
- 7. Provides good student-student interactions.





- Stimulated my interest such that I do more outside reading on the subject.
- 2. Encouraged me to ask questions about issues and topics in this field.
- 3. Allows me to develop autonomy in learning.
- 4. Has a manageable workload.
- 5. Provides good quality feedback.
- 6. Provides good lecturer-student interactions.
- 7. Provides good student-student interactions.



STUDENT PERCEPTION QUALITATIVE Learning Experience In-Depth Interview







Interview till saturation of themes (12 Year 1 MBBS students) Transcript recorded and validated Data analyzed by grounded theory and thematic analysis

How does switching to e-learning impact student learning?

FLEXBLE ENABLES EEP LEARNING



Reviewing lecture videos for revision



Adjusting learning pace



Choosing optimal time to study



Consolidate notes and research while watching lecture videos

->



Autonomy in learning

Learning challenges



->

INSTRUCTIONAL SCAFFOLDING -Facilitate student learning



Clear learning order



Clear and specific learning outcomes



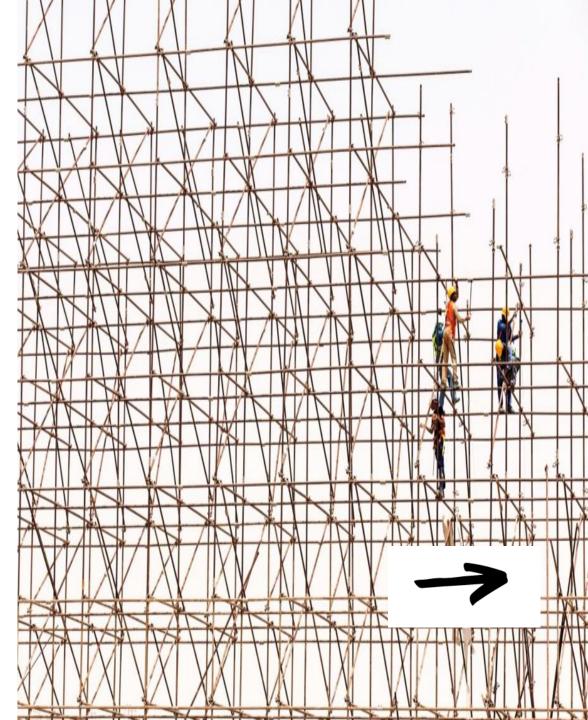
Clarity of lecture materials (captions, visual aids, etc.)



Extra learning resources



Technical support for online tools



What are the main drawbacks of e-learning



Sense of isolation Online Forum Constitution Smaller group Incentives

HOW TO FACILITATE STUDENT-STUDENT INTERACTIONS

Mutually supportive learning environment Knowledge sharing Supported by peers, seniors and teachers Online wellbeing

21 **CO-CREATING** THF CURRICULUM

