

KAHOOT EXPERIENCES IN A VERY LARGE CLASS

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Co-Authors



Introduction

- Exploring Engineering World is a general education course for all UG engineering students.
- CDIO's Introduction to Engineering
- Contents are based on 6 national agenda
- Half lectures & half workshop
- Every semester, 400 students, 25 lecturers, 8 TAs & 1 secretary

Lecture/Formative



Since 2013

Pro

- Stable
- Attendance check

Con

- Issueing

2017/1

- 9% not working
- 21% against

2015/2

Workshop/Summative



Summary quiz since 2017/1



Kahoot

Concerns

- Students' devices & connections
- Wifi/3G
- Attendance check
- Limited question type
- All questions in one go



Preparation

- Codes for attendance check
- Backup answering paper

Students' Survey

● Yes

● No

● Phone

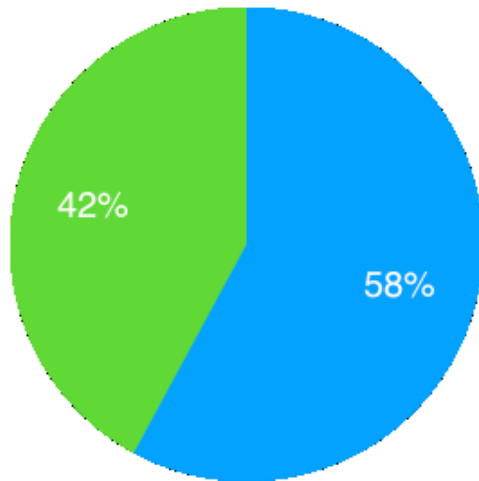
● Tablet

● Notebook

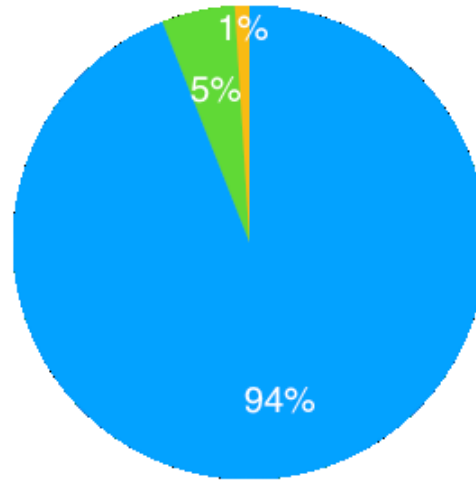
● CU WiFi

● SP 3G/4G

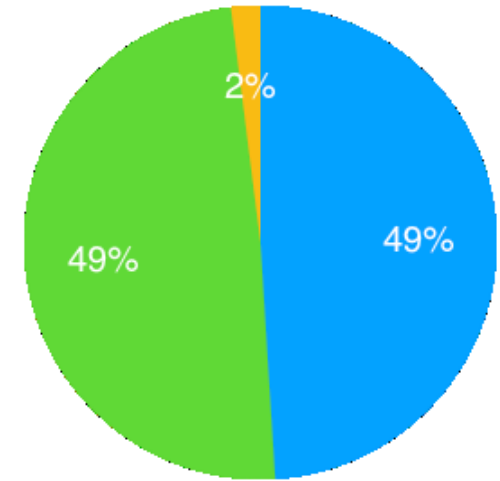
● SP WiFi



Use Kahoot before
Programming, English



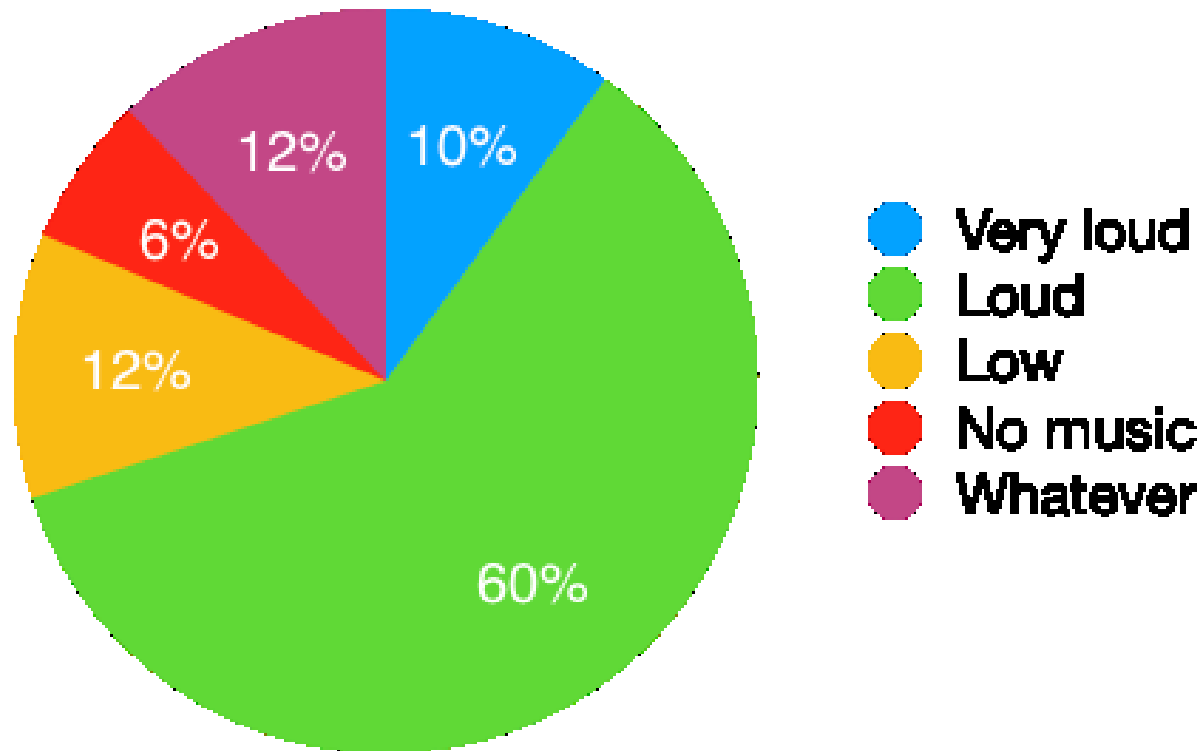
Device



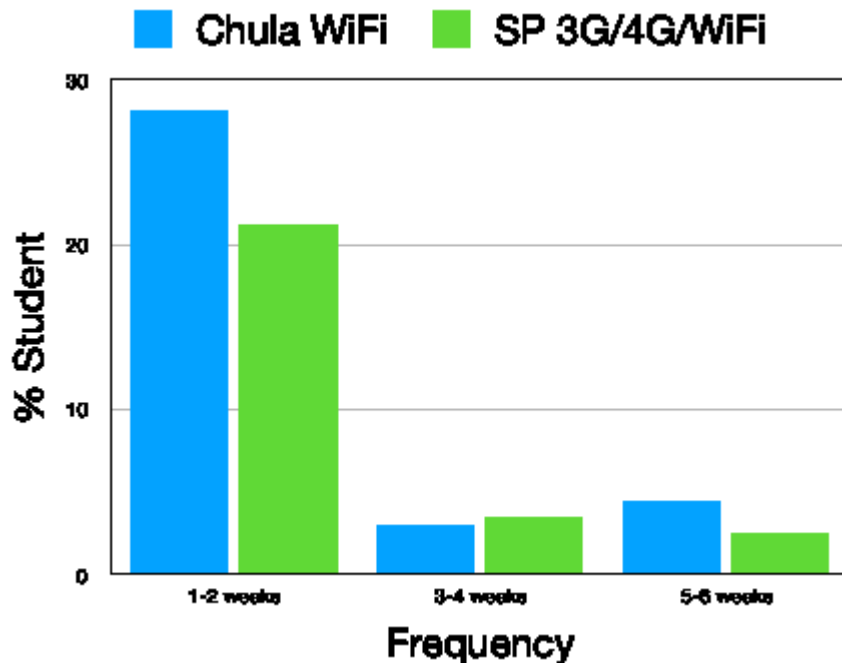
Connection

Students' Opinion

- Background music level

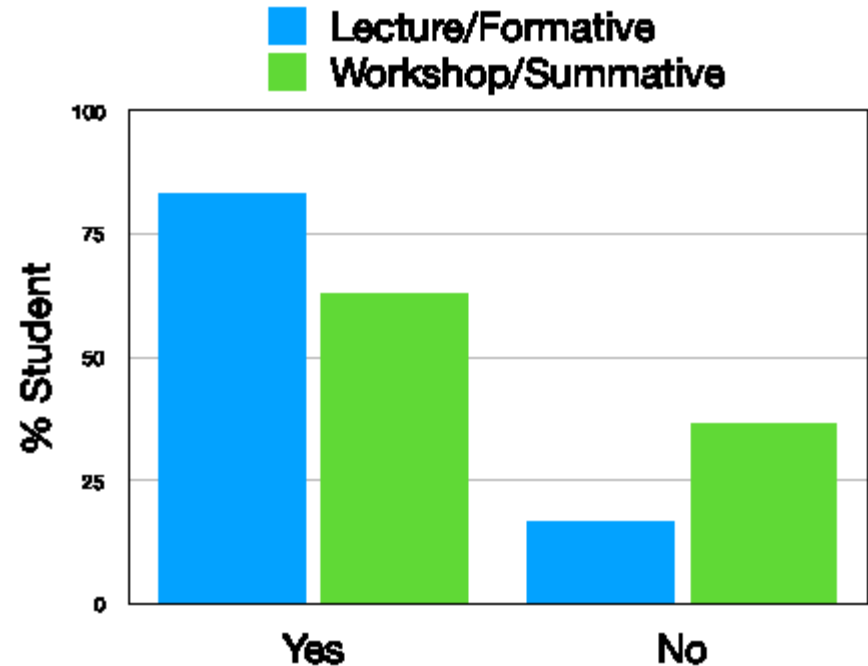


Students' Survey



Pro (Max 5)

- 4.5 Faster, more convenient
- 4.3 Less formal atmosphere
- 3.6 Chance of asking friends

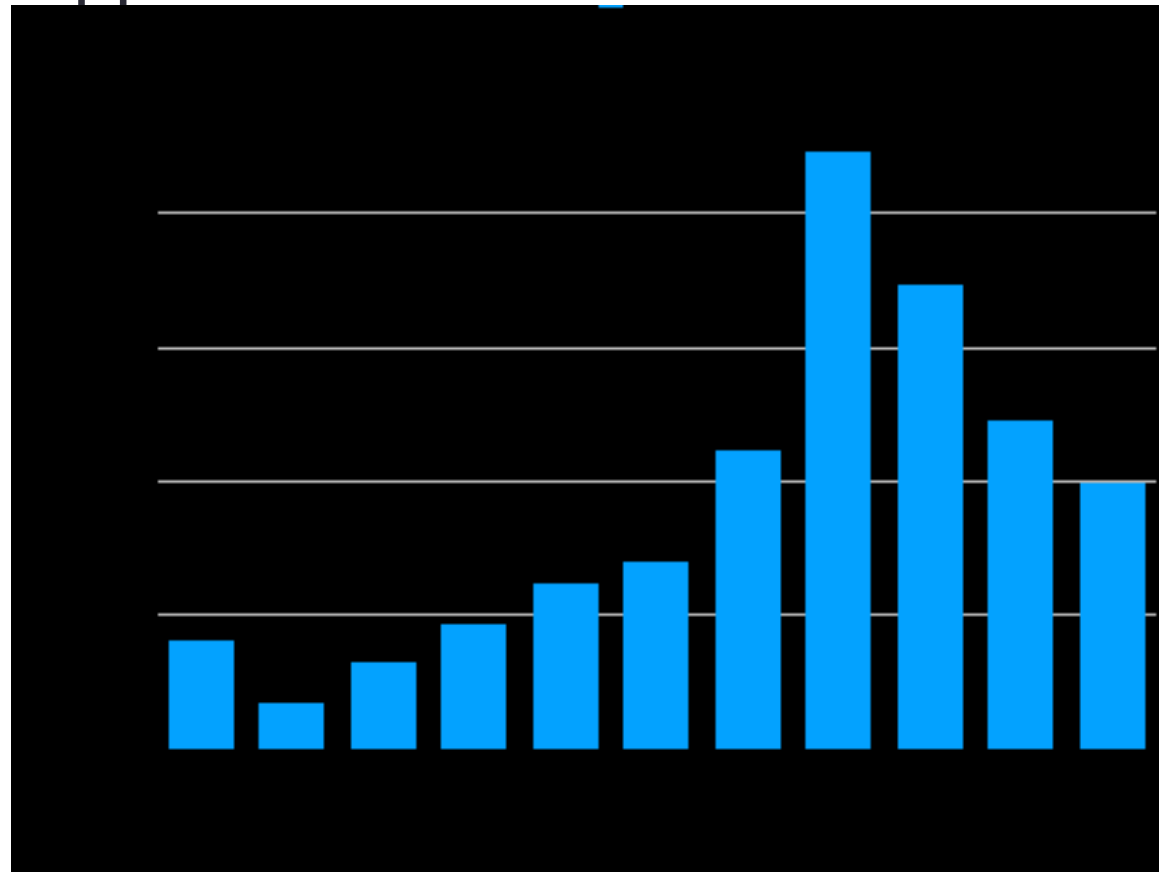


Con (Max 5)

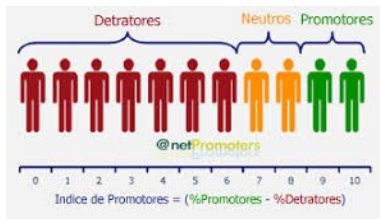
- 3.9 Connection problem
- 3.7 Cannot read the screen
- 3.6 Not enough time
- 3.6 Not fair, some cheated

Students' Opinion

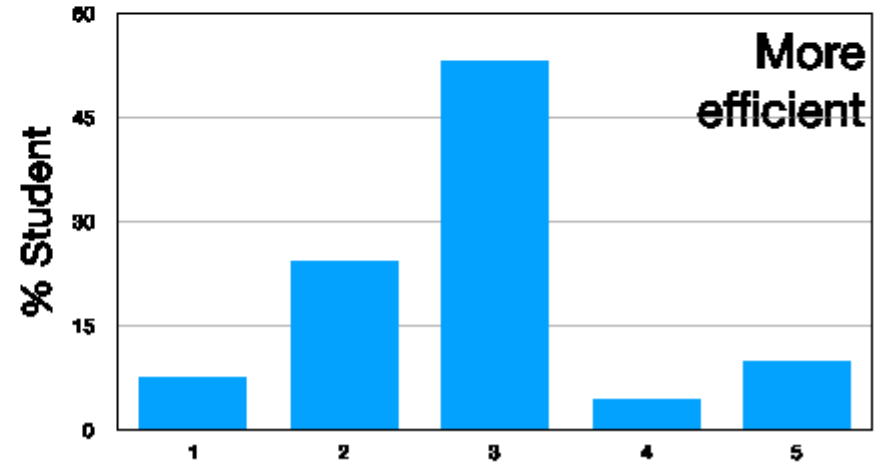
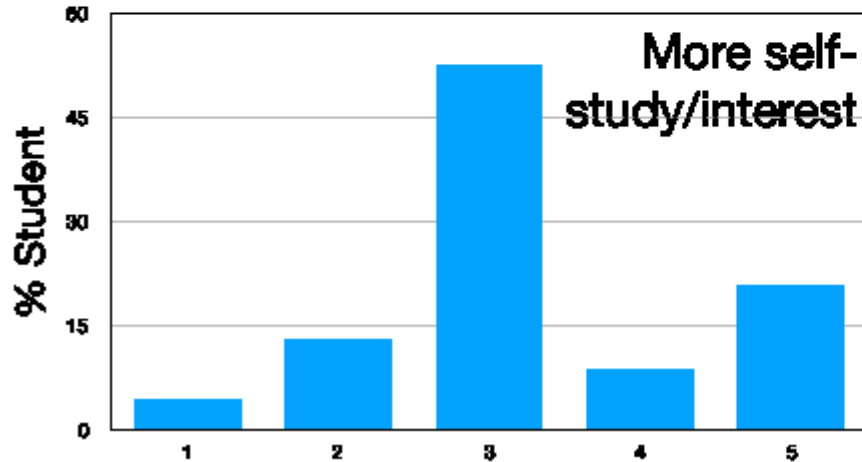
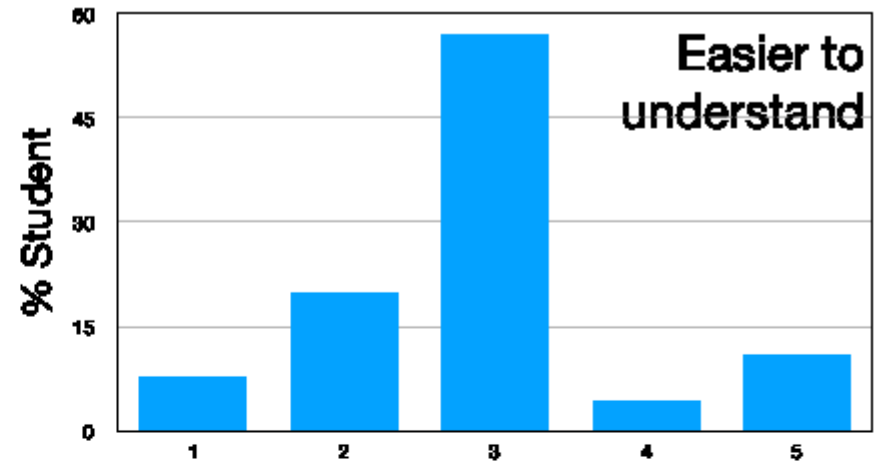
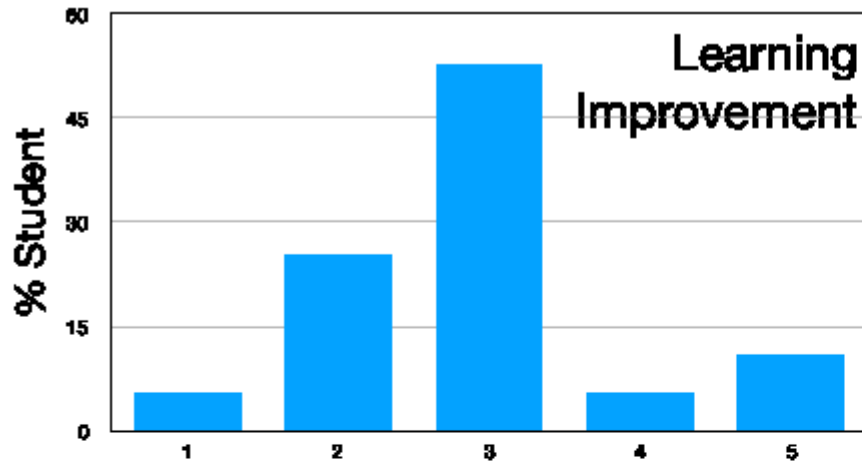
- Kahoot use support



-15.8% Net Promotor Score (NPS)



Students' Opinion: Clicker



Modified NPS: -73%, -74%, -50%, -75%

Students' Opinion

- Improper ID/Name



Aj Kuntinee

Admin · February 8

A man-hour: the amount of work performed by the average worker in one hour

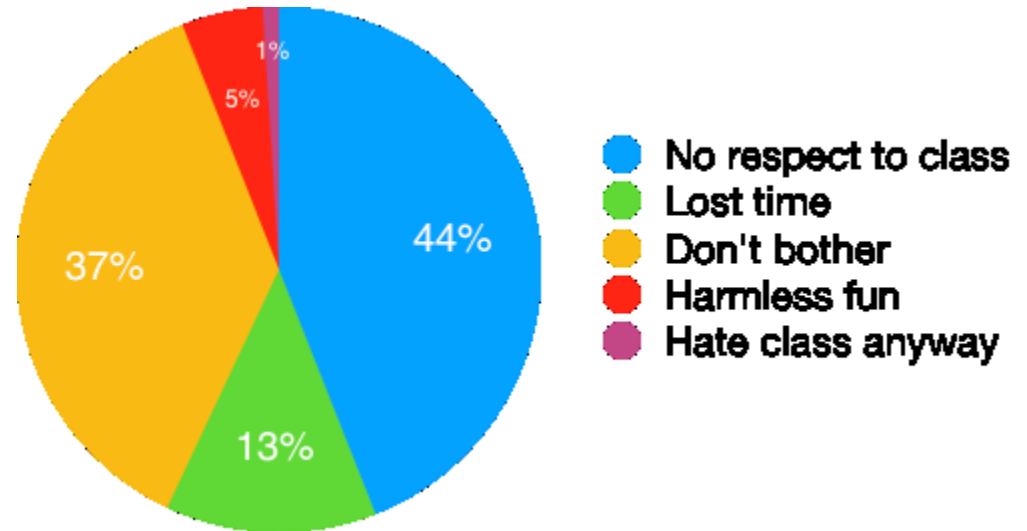
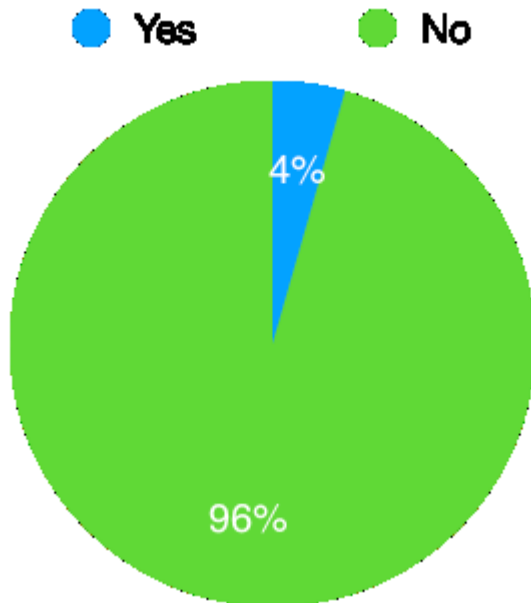
ระหว่างการลงชื่อตอบ Kahoot มีนิสิตจำนวนหนึ่งที่เล่นกับชื่อที่แสดงชั้นบนจอ ทำให้เสียเวลา ถ้าคิดว่าเสียเวลาไป 1 นาที ในห้องที่มี 400 คน นั่นคือเสียเวลารวมของทั้งหมดไปกว่าหกชั่วโมงครึ่ง

ในการใช้ Kahoot ครั้งต่อๆ ไป ถ้านิสิตเล่นเรื่องชื่ออีกจะถูกตัดออกและไม่ได้คะแนนในครั้งนั้น

Like

Comment

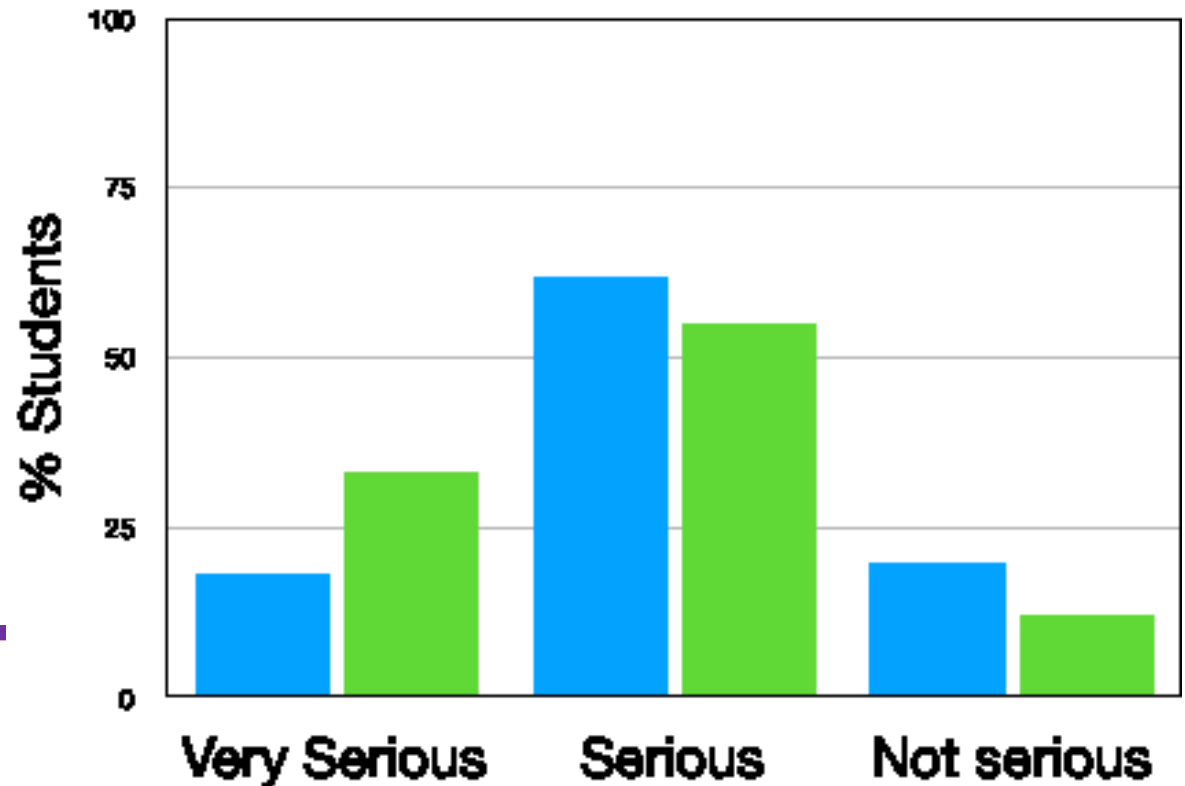
6



Students' Opinion

- Copying

■ Lecture/Formative
■ Workshop/Summative



It's an exam!



It's an informal exam.



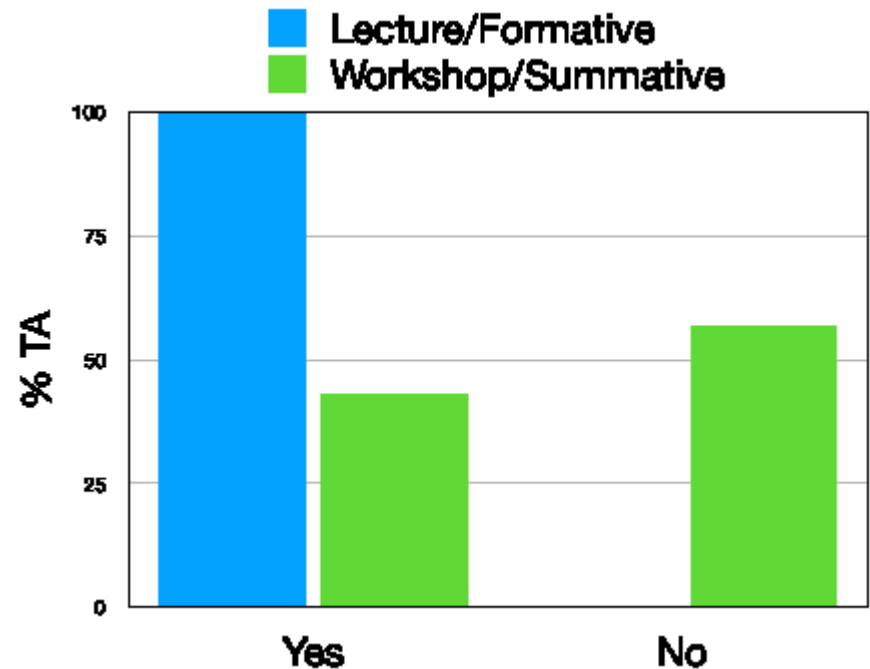
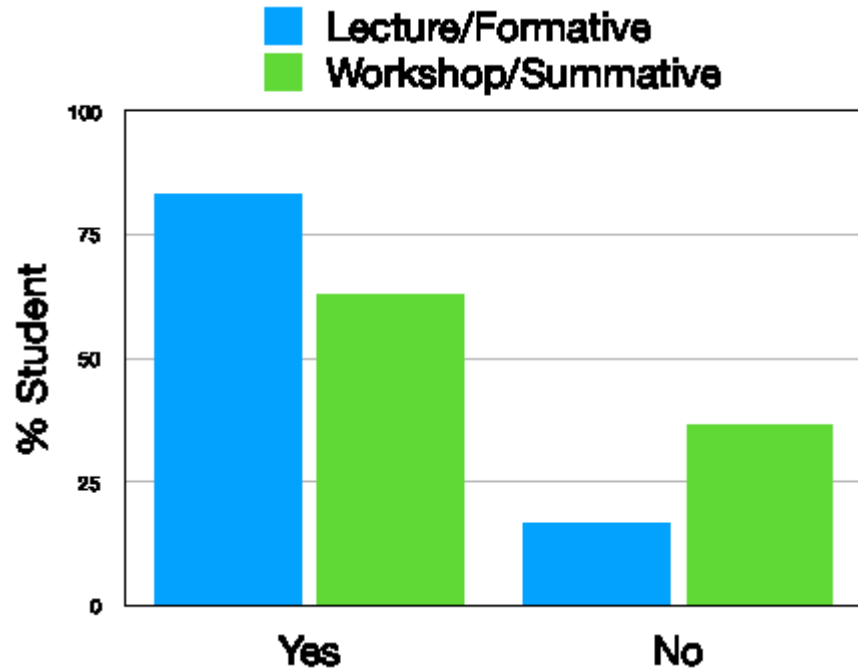
It's not an exam because it's informal.

Observation: Students

- Universal device ownership
- Playing with names
- More relaxed, more noise
- Loud noise after solutions

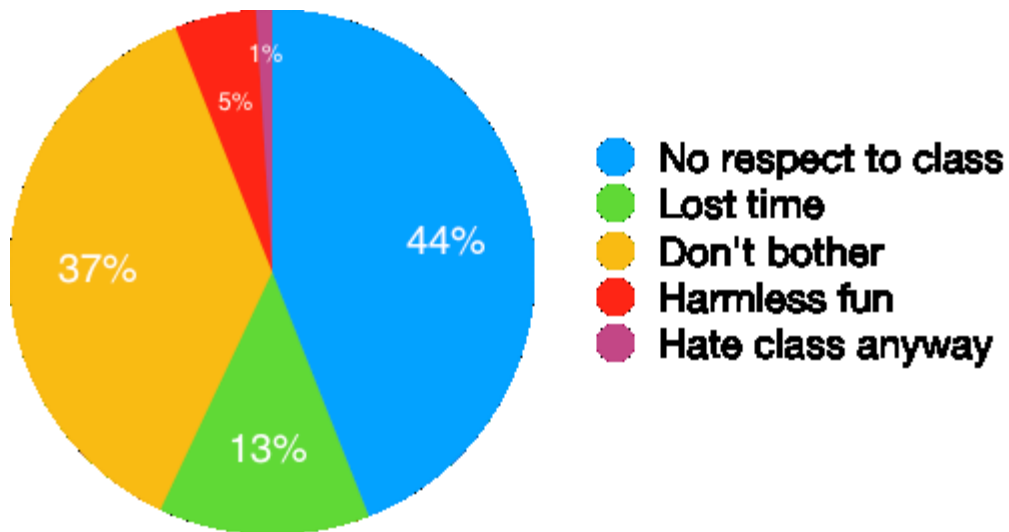
- Some had two or more devices.

Teaching Assistants' Opinion (7/8)

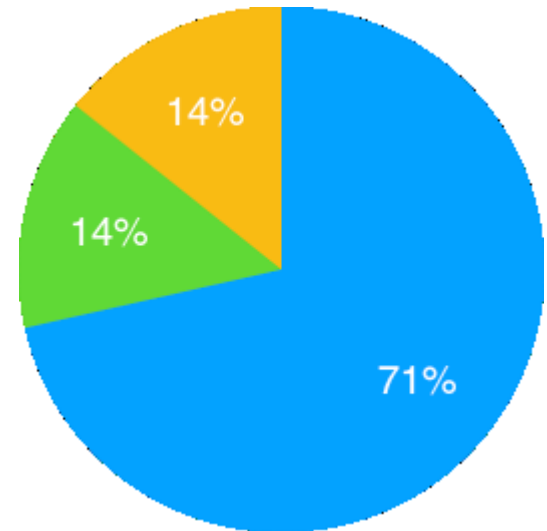


Teaching Assistants' Opinion

- Improper ID/Name



Students



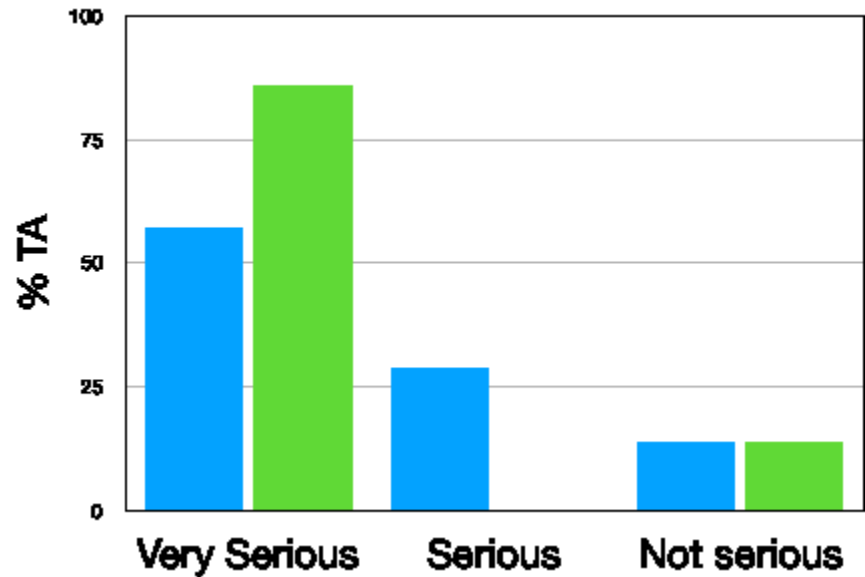
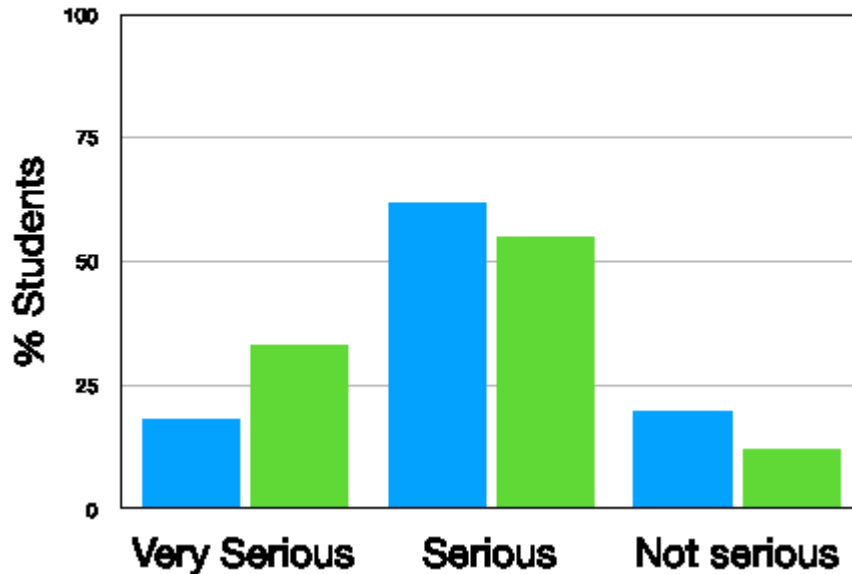
TA

Teaching Assistants' Opinion

- Copying

It is an exam!
It's an informal exam.
It's not an exam because it's informal.

■ Lecture/Formative
■ Workshop/Summative



Observation: TA

- Preparation
 - Paper backup with procedure
 - Help lecturers to set up Kahoot sessions
- Operation
 - The ID/name misbehavior was too fast to catch or use another device
 - Skipping solutions to avoid cheating
- Post Processing
 - Raw data only

Lecturers' Opinion (9/25)

Averaged Likert level, max 5

- 4.0 Better class atmosphere
- 3.9 Kahoot was an appropriate substitution of clickers
- 3.9 Overall satisfaction
- 3.9 Use Kahoot next semester

Observation: Lecturers

- Question setting
 - Tool's limitation (types/time)
- Different reactions to Kahoot
 - Like the liveliness
 - No music

Insights

Students

- Differentiation of exams/evaluation by formality
- Concern for score

TA

- More conservative
- Overly concern with BYOD
- Overly concern for cheating and fairness

Insights

Finding

- Expose attitude & priority of stakeholders
- Decision on priority and practice
 - Majority's benefits
 - Learning, deemphasize scores

Future works

Students

- Emphasize on learning
- More communication on objectives & etiquette

TA

- Attitude alignment
- Standard procedure

Lecturers

- Mutual agreements and attitude alignment
- Tool's limitation

Soul Searching

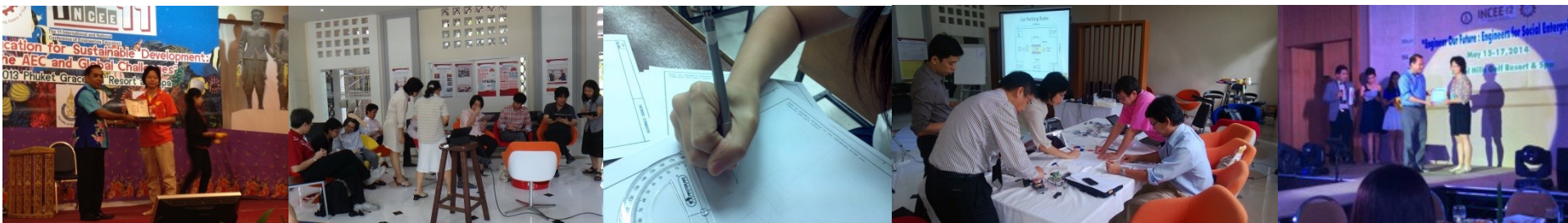
Evaluation

- What made an exam an exam?
- Review of constructive alignment for the course

Fb: ChulaEngEd



Community of Practice



Research-based



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