





Design and implementation of a protocol for the analysis of higher education students' feedback internalization process

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Introduction

个 effective 个 quality of feedback

- active student involvement in the learning and assessment process
- feedback literacy
- evaluator anonymity
- qualitative over quantitative formats
- provision of comparative examples
- role of technology

(Carless, 2019)

Introduction

↑ effective ↑ quality of feedback

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How do students engage with feedback?

• Students' internal feedback processes? (Lui & Andrade, 2022)







Introduction

Internal feedback is the new knowledge that students generate when they compare their current knowledge and competence with some reference information (Nicol, 2021).

- peer work
- peer feedback
- instructor comments
- assessment criteria
- AI







Introduction



proyecto de investigación

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Objective

To comprehend students' internalized feedback processes, i.e. what higher education students do with the information received about their work or learning process.

Based on...

- students' prior self-regulation
- students' evaluation beliefs
- task types
- characteristics and purposes of feedback provided
- academic field of expertise
- academic year







Objective

Students' adjustment of their behavior > better academic performance (Nicol & McCallum, 2022)



Method

- 1. Sequence design
- 2. Sequence on VLE → Data collection: quantitative and qualitative





Method

- 1. Sequence design
- a scoping literature review on the topic
- three co-design sessions with 7 tutors and 34 students
- subsequent internal validation (within the research team)
- subsequent external validation (with experts)



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Method

2. Sequence on VLE

COFE-I



Progrés general % 0





















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Method

2. Sequence on VLE





Students' profile (pre-test)

- a. prior self-regulation
- b. self-efficacy
- c. beliefs about evaluation









Progrés general % 0









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Method

2. Sequence on VLE + data collection

COFE-I



Progrés general % 0



- Longish
- With feedback(s)
- Substantial weight within subject (30%)













Method

2. Sequence on VLE + data collection























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- Questionnaire to interpret info received and report on feelings.
- Interview on Zoom to delve into the info received, the factors involved and how students will apply it
- At times, several loops.



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Method

2. Sequence on VLE COFE-I

























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Students' profile (post-test)

- prior self-regulation a.
- self-efficacy
- beliefs about evaluation
- satisfaction with one's work
- perception of learning







Data analysis

By monitoring the evolution of students' ability to generate internalized feedback over an academic year, we expect to:

- Identify the types (formal/informal) and most relevant sources of information for each type of task
- Understand the value students place on deliberate practices and what other natural sources they use
- Comprehend the actions students implement as a result of the information received
- Comprehend the extent to which they share and rework that information
- Determine the intentions for change that this process generates







Preliminary findings

- Students tend to consider that the instructions of an assignment are the evaluation criteria.
- Sometimes students are not provided with evaluation criteria when given an assignment.
- Sometimes students receive hardly any feedback.
- Students have difficulty in identifying what is feedback.
- Students tend to undermine informal sources of feedback such as peer feedback.
- Students use peers' work to compare marks.







Preliminary findings

- Use of AI for comparison → safer environment, no judgment as to the appropriateness of questions
- When feedback is timely provided (before the next step in an assignment), students tend to apply it.
- Feedback is applied to get a higher score, not "to learn".
- The appropriateness/ quality of the assignment is crucial so the feedback is substantial.







Preliminary findings

- After going through the sequence,
 - better self-regulation
 - higher importance to planning
 - relevance of feedback provision







Conclusions

- This research covers a critical gap in understanding how students integrate and utilize feedback to enhance their learning and academic performance.
- Comprehensive framework to understand the nuances of feedback interpretation.
- Hopefully, this understanding can lead to more effective feedback practices, tailored to individual student needs
 deeper learning and better academic outcomes



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Thank you!