Instant Learning Feedback for Constructing Educational Activities

CMU CENTRAL MICHIGAN UNIVERSITY | College of Medicine

Faiz Tuma, MD, MME, MDE, EdS, DABS, FRCSC, Maher Megaly, MS

Background

- Learners' intellectual processes are the core components of the educational practice.
- These intellectual processes are diverse and heterogenous types and combination in multiple dimensions and fields.
- The sum and details of these processes can potentially be the core of the future educational activities structure, content, and flow. However, they are currently addressed only to a limited extent. This is due to the marginal progress in the practice of education and the lack of efficient and practical tool to gain an insight on how learners learn during the particular educational event.
- There is little known about the learner's mental actions and reactions to the educational event and the learning process during the learning activities.
- There are moderate efforts to explore and know more about this aspect.
- Tactics such as asking learners questions directly, using an audience response system, and other ways of engagement are meant to aim in this direction as well as to facilitates interactive learning.
- The effect and scope of these tactics are limited for various reasons, the most important of which is that they were not aimed to explore and fully understand the intellectual learning process in the learners' mind.

Objectives

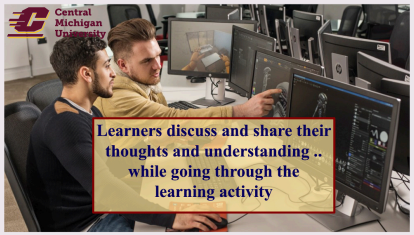
- Optimizing the flow of the educational activities to meet the ongoing learning needs of students.
- Individualize teaching to the current status of learning for the particular topic and objectives.

Technology

- A well designed and structured supervision and feedback software and hardware systems for the operative training are constructed to receive anonymous continuous feedback.
- Input by all learners are continuously received in a simple and handy platform.
- The input is shared with all learners and the teacher to guide the discussion and learning.
- The activity and input are moderated by the teacher to accustom the flow of and maximize learning.

Methods & Results

- Learning in small groups is optimized to meet the individual needs of learners.
- Input from learners about their processing and conceptualization of information is used as a guide for the flow of their own learning.
- Using a practical digital platform for learners to share their perception, understanding, analysis, responses, and conclusions instantly during the educational event.
- With all the relevant information retrieval, this sharing will significantly inform educators understanding and ability to structure and conduct their teaching activities.
- This is made possible with a simple notes-platform with a list of prompts of reactions, reflections, voice recordings, agreeing/ disagreeing scale options, and connections to other topics/ lectures/ facts/videos/sources.



- A rich library of feedback, learning needs, teaching progress, and flow pace is constructed from the accumulative experience.
- Examining and considering the input and feedback in the categories of comprehension, application, fulfillment of expectations, missed points, and relevance to needs forms the basis of future educational curricula.

Conclusions

- Electronic instant detailed feedback from learners about the educational activity informs structuring future educational curricula.
- It should be the focus of future studies to understand the exact and specific reactions of learners to the variety of teaching activities and topics.

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