

<http://dx.doi.org/10.35630/2023/XIIsc4hlth/109>

STUDY ASSESSING THE EFFECTIVENESS OF DIGITAL EDUCATION PROGRAMS

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INTRODUCTION

Margins between education and technologies have become progressively slimmer. Many studies in this field have been premeditated and launched by social organizations, governments, and corporate entities. Still, very few studies and approaches have attacked challenges, dilemmas and opportunities of assessments carried out in projects that combine education and innovation. So, how do we evaluate those initiatives? Which approaches could be used? What do the several appraisals understudy give insight towards?

Purpose:

Like many traditional education correspondences, online learners often have varied interests, and this could be a problem for evaluators who need to assess resources offer to users, sometimes from a wide range of education experiences.

Their complex offerings are a boon for students or teachers seeking uniform findings about efficiency. In the case of an educational Website like Coursera, as an example, different categories of users will look up on different resources; some learners may take an online course while others could be researching or only be on the site to seek out a mentoring. Virtual schools that use several course providers present an analogous puzzle, and even a similar online course may offer differentiated learning capabilities if, for instance, learners initiate more or less contact with the course coach or obtain variable degrees of face-to-face assistance from a parent or coach. (A parallel lack of regularity can be found in most traditional settings with different teachers using variable instructional models.)

MATERIALS AND METHODS

Methodical search of the materials pertaining to the focus subject over the last decade and a half identified over a thousand empirical studies of online learning. Experts vetted these studies, identifying those which used specific criteria like -:

(a) Juxtaposed an online to a face-to-face condition,

(b) Used a rigorous study design,

(c) Stated the final student learning outcomes, and

(d) Provided acceptable material to calculate an effect size.

RESULTS

This meta-analysis established that, on an average, students learning in an online condition achieved differently better results when compared to those using the traditional face-to-face training method. The variance between student outcomes for both methods which was measured as the difference between statistical treatment and control means, divided by their collective standard deviation was greater in those studies looking at the difference in conditions that merged online and face-to-face instruction compared with lectures taught entirely face-to-face.

CONCLUSIONS

Though multifaceted resources can make it quite difficult for surveyors to gauge effectiveness, good judgments—especially when using multiple, harmonizing study methods can note the circumstances under which a method or resource is most likely to succeed or fall short and can produce valuable recommendations for strengthening its weak points. Researchers who are studying multifaceted resources should deliberate and identify a strategy that combines both breadth and depth.

Keywords:

technology, education, study meta-analysis, online learning