



< Back to results | < Previous 15 of 34 Next >

Download Print Save to PDF Save to list More... >

Education and Information Technologies • Volume 26, Issue 2, Pages 2225 - 2231 • March 2021

Document type

Article

Source type

Journal

ISSN

13602357

DOI

10.1007/s10639-020-10353-7

View more

Evaluation of course outcome attainment of engineering course with traditional, blended and flipped classroom approaches

Vivek C.M.^a ; Ramkumar P.^b

Save all to author list

^a Department of Mechanical Engineering, Periyar Maniammai Institute of Science and Technology, Vallam, India

^b Department of Mechanical Engineering, Kalasalingam Academy of Research and Education, Virudhunagar, India

8 92th percentile
Citations in Scopus

2.67
FWCI

24
Views count

[View all metrics >](#)

Full text options Export

Abstract

Author keywords

Sustainable Development Goals 2022

SciVal Topics

Metrics

Abstract

With development in technologies in educational and industrial sectors students are facing strenuous competitions. Job offers around the world fixate on recruiting suitable graduates with skills, knowledge and problem solving skills. For assuring the learners attainment of cognitive, psychometric and affective levels, Outcome based education (OBE) measures each and every aspect of assessment done by the students from Kalasalingam Academy of Research and Education, India. In this paper a methodological evaluation is done on course outcome (CO) of students learned using different approaches are studied. Based on the result, the introduction of teaching aids in form of digital tools has positive influence over CO attainment. However, adaptability of different approaches was found be difficult for some of student diverse and resulted in decrease in CO attainment % levels. © 2020, Springer Science+Business Media, LLC, part of Springer Nature.

Author keywords

Blended; Course outcome; Flipped; Outcome based education

Cited by 8 documents

Impact of COVID-19 on distance learning practical design courses

Fewella, L.N.
(2023) *International Journal of Technology and Design Education*

Exploring the viability of augmented reality game- enhanced education in WhatsApp flipped and blended classes versus the face-to-face classes

Khodabandeh, F.
(2023) *Education and Information Technologies*

Whether to flip Extreme Apprenticeship: which is more effective in programming instruction?

Hopcan, S. , Polat, E. , Albayrak, E.
(2022) *Education and Information Technologies*

[View all 8 citing documents](#)

Inform me when this document is cited in Scopus:

[Set citation alert >](#)

Related documents

Training of adult trainers: Implementation and evaluation of a higher education program in Greece

Mavropoulos, A.A. , Sipitanou, A.K. , Pampouri, A.A.
(2019) *International Review of Research in Open and Distance Learning*

Sentiment Evolutions in Blended Learning Contexts: Investigating Dynamic Interactions Using Simulation Investigation for Empirical Social Network Analysis

Han, Z. , Huang, C. , Huang, Q.
(2020) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*

Blended Learning as Instructional Media: Literature Review

Listiana, N. , Jaharadak, A.A.
(2019) *Journal of Physics: Conference Series*

[View all related documents based on references](#)

Find more related documents in Scopus based on:

Authors > Keywords >

References (10)

[View in search results format >](#) AllCSV export   Print  E-mail  Save to PDF [Create bibliography](#)

-
- 1 Raes, A., Detienne, L., Windey, I., Depaep, F.
A systematic literature review on synchronous hybrid learning: Gaps identified (2019) *Learning Environments Research*, pp. 1-22. Cited 3 times.
-
- 2 Chandra, V., Fisher, D.L.
Students' perceptions of a blended web-based learning environment ([Open Access](#))
(2009) *Learning Environments Research*, 12 (1), pp. 31-44. Cited 42 times.
doi: 10.1007/s10984-008-9051-6
[View at Publisher](#)
-
- 3 Yamaguchi, S., Kondo, H., Ohnishi, Y., Nishino, K.
Analysis of learning activities and effects on blended lectures ([Open Access](#))
(2019) *Procedia Computer Science*, 159, pp. 1568-1575. Cited 6 times.
<http://www.sciencedirect.com/science/journal/18770509>
doi: 10.1016/j.procs.2019.09.327
[View at Publisher](#)
-
- 4 Khodeir, L.M.
Blended learning methods as an approach to teaching project management to architecture students ([Open Access](#))
(2018) *Alexandria Engineering Journal*, 57 (4), pp. 3899-3905. Cited 16 times.
http://www.elsevier.com/wps/find/journaldescription.cws_home/724292/description#description
doi: 10.1016/j.aej.2018.10.004
[View at Publisher](#)
-
- 5 Yigit, T., Koyun, A., Yuksel, A.S., Cankaya, I.A.
Evaluation of blended learning approach in computer engineering education (2014) *Procedia-Social and Behavioral Sciences*, 141, pp. 807-812. Cited 52 times.
-
- 6 Broadbent, J.
Comparing online and blended learner's self-regulated learning strategies and academic performance
(2017) *Internet and Higher Education*, 33, pp. 24-32. Cited 293 times.
<https://www.journals.elsevier.com/the-internet-and-higher-education>
doi: 10.1016/j.iheduc.2017.01.004
[View at Publisher](#)
-