

**A CASE STUDY ON DIFFERENT APPROACHES USED IN THE ONLINE
TEACHING AND LEARNING PROCESS TO FACILITATE SUSTAINABLE
DEVELOPMENT GOALS (SDGs) IN DISTANCE LEARNING DURING THE COVID -
19 PANDEMIC**

Kuruppu K.A.D.D.¹

¹Department of Aeronautical Engineering, Faculty of Engineering, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka.

dulanik@kdu.ac.lk

ABSTRACT: As per UNESCO statistics, the global Covid-19 pandemic has made 91% of the world's student population to be at home without attending school or college. Educational institutes around the world had to completely shift to the online mode of teaching and learning. The objective of this paper is to emphasize on the different teaching and learning approaches which could be used in online learning and teaching to achieve quality education as per SDGs. The paper highlights tools, such as Zoom, Google Meet, Google Classroom, Padlet, Google whiteboard and the "assessments for learning approach" instead of the "assessments of learning" approach, which can be effectively used in the online mode. Perceptions of learners and the educators towards the approaches, which can be considered as feedback are pointed out. 100% of the students commented that they were quite satisfied with the new approach of conducting in-class assessments in the online mode using online tools. 98 % of students commented that student-lecturer interaction during the lectures was satisfactory. 100 % of the students commented that online submission of assignments was convenient and 91 % of the students commented that the "breakout room" option in the Zoom app. had given them ample opportunity to interact with their peers. All the students were of the view that they would be happy to take online lectures in future as the lectures could be arranged even on weekends, during late afternoons or early in the morning. In addition, all the students were happy about online lectures as the home or residing environment was favorable to listen to lectures. Furthermore, a majority of the students (99 %) were satisfied with student-teacher interaction in online mode. The study concludes that it was a guide towards understanding the approaches that can be used effectively in the online teaching and learning process to ensure SDGs related to quality education.

Keywords: Distance learning, Education, SDGs, Teaching and learning, Technology