

Effect of Covid-19 Pandemic Regarding the Academic Performance of Tertiary Education (Engineering Discipline)

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Due to the pandemic of new coronavirus, which has changed to online education, many universities and colleges have globally prohibited teaching in the classroom. The ongoing cross-sectional study is examining the impact of the COVID-19 lockdown on the academic achievements of Electrical Engineering students and academics. Students and scholars of electrical engineering were allowed to invite to answer an opinion questionnaire. The total number of 1,492 attendants (774 (52.0%) and 718 (48.1%) respectively) from the three different universities in Sri Lanka was encountered and 94.5% of respondents responded towards the survey. Data showed that COVID-19 seems to have an influence on the academic performance of majority of respondents (97.1%) to various engineering disciplines. For online training generally, the mean assessment scoring was 5.2 ± 2.5 while the practical score was 3.7 ± 2.7 . Participants revealed that online study material was extremely suitable through e-books, YouTube videos, university platforms, continuing education websites, and educational applications and via online lessons or rather pdf-lectures. While learning environment provides an opportunity to explore besides themselves, the main challenge facing online education is how to teach practical lessons in electrical engineering. Even though most of the topics are practical, online learning is straightforward. To enhance online learning generally, online platforms for learning are recommended, electronic devices for students ought to be available for Internet access, internet acceleration should be improved, Internet packages will be provided cheaper, or perhaps even free, vocational trainings offered to lecturers should be provided, and student and teacher interaction should be improved. eLearning might be significantly enhanced through much more interactive engineering, brief explanation, technical processes, and 3D virtual tools to visualize the real situation.

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