

Effectiveness of E-Learning on Interest in Carbon footprint and Environmental Awareness among School Students in Kurunegala District

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Environmental awareness proves paramount, it fosters a sense of connection to the natural world, promotes sustainable development and encourages conservation of irreplaceable natural resources and the world. Carbon footprint is a way to provide a number to the release of greenhouse gases by a particular action. The present research aims at evaluating the efficacy of e-Learning to teach Carbon footprint and Environmental Awareness. The present study is experimental in nature. Pre-test post-test equivalent group experimental design was followed in the present study. In this design, pre-tests were administered afore the experimental and control group treatment and post-tests at the cessation of the treatment period. A sample of 70 students was culled from Kurunegala District utilizing convenience sampling. Results denote that e-Learning is more efficacious than the conventional method in enhancing the achievements. There is a significant difference between the post experiment and delayed post-test among boys and girls at 0.05 level and insignificant at 0.01 level on Carbon footprint. Additionally, there is a significant difference between the rural (N = 12) & urban (N = 23) students, in which rural students possess high when compared to that of the obverse. But if the significance can be diluted to 5% we can optically distinguish the pattern where rural students are more inclined to Carbon footprint and environmental awareness in all pre, post, and post delayed scores. There is no significant difference between joint and nuclear family at 1% in pre, post and delayed post-test scores in Carbon footprint and environmental awareness. In conclusion, there is a significant difference between pre-test and post-test scores. It is evident from the present research that e-learning media and multimedia and its resources can elucidate the most of the abstract concepts.

Keywords: Carbon Footprint, e-Learning, Environmental Awareness, Kurunegala District