

Thesis Title :

Investigation on development of an educational model to enhance knowledge on sustainability applications in buildings

Abstract :

Sustainable Education can be defined as a concept that involves active academic participation to create economic, social and environmental programs while improving life standards, generating empowerment and respecting interdependence of students. Because of the correlation between environmental, social and economic issues, and the importance of interdisciplinary thinking and holistic insight, sustainable education is particularly relevant in the context of environment conservation. Similarly, Sustainable Education is gradually promoted as a major tool and it is well-recognized among many countries to enhance the protection of environment while contributing to the development of the nation. In such a prevailing global scenario, Sri Lanka has also identified, sustainable development as an effective forefront though the considerations given to the concept of sustainable education is comparatively low in Sri Lankan context. According to literature, Sustainable Education has a strong disciplinary focus with the interests and the background of students. Personal factors such as attitudes, behaviors, awareness and knowledge can strongly interlinked with this concept. In this research students' perception on three major components such as climate change, sustainable design and energy conservation related to infrastructure development will be assessed. Teacher's perception on integrating concepts of sustainable education in their curriculums will be critically analyzed. Finally a model will be developed to enhance the sustainable education at undergraduate level in Sri Lanka.