Advantages and Functions of Courtyard in regard to the Elements of Sustainable Architecture

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Abstract

Alongside the industrial revolution, technology has been opposing whit the nature and has become a disaster to the environment. Amongst these, buildings and structures have had a great role intensifying the environmental crisis, hence, discussion around sustainable architecture is not an option, but an inevitable necessity. On the other hand, practically all of these principles have been used by our ancestor due to recent discussions on sustainability.Today, we can clearly see the lack of the advantage of traditional architecture in copied designs of non-domestic cultures in our country. Sustainability is one of the principle concepts that has been regarded in traditional designs and elements and has been recently approved publicly by the society worldwide. It's necessary to say that the concept of sustainability and all its element including social, economic, environmental, etc. is under consideration in Iran's traditional architecture and is used to provide comfort for people. In this research, we've tried to identify and introduce the advantages and functions of courtyard in regard to the elements of sustainable architecture.

Key words: Sustainable Development, Courtyard, Sustainable Development characteristics, Traditional Houses.

1. Introduction

Considering the daily growth of global population and the limitation of nature resources, today mankind has gained results about the protection of the environment and avoiding its destruction that has made him think about a process called Sustainable Development in every aspect of his life, Hence, architecture and urban design thinkers alongside with other field of study have been trying to present new approaches which can provide human's purposes of Sustainable Development.