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**Evolution of Space: Application of Bionic concepts in Architecture Design Education**

Global climate change is a very important issue in recent years. How to confront environmental challenges and develop sustainable living styles have become new aspects in architecture and training. For these reasons, an architecture design program "Evolution of space" combined concepts of climate change and space transformation was proposed to educate and inspire freshmen correct environmental attitude. A given space is regarded as organic one to fit external environment for survival, as the definition of "evolution." Firstly, students attended a lecture to comprehend environmental crises such as global warming and resource shortage. Secondly, they have to set up a supposed world in extreme climate. Learning from nature, students must analyze 3 kinds of creatures which could be transformed into useful functions or structures as unit component. These new functional components could be sunshade, moving structure, rain harvesting and any others which could help one to live in a 3m\*3m\*12m space in extreme climate finally. This program can help students to care the surroundings seriously and solve problems with interesting bionic concepts in architecture design.

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architecture education, extreme climate, sustainable lifestyle, bionics architecture

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**Topics**

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