Project 3: Climate Adaption in Architecture and Urban Research

**Contact Information:**

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**Project Description and Objectives:**

Urban climate and its change have great influence in urban planning and development. More attention has been attracted to architecture and city research along with urban climates. This project is aimed at present climate situation and problems, such as urban heat island effect, air pollution, and unsatisfactory atmospheric conditions. The goal is to integrate urban climate into urban data models. We are eager to visualize urban dynamic data from various government departments or commercial institutes and organizations. We want to evaluate the urban climate carrying capacity. Thus, tentative experiments should be performed to analyze and summarize the root causes of urban problems. The ultimate goal is to explore and propose solutions by urban planning in architectures. During this project research, students will rediscover an urban phenomenon and master the methods of problem analysis.

**Eligibility Requirements:**

* Speaking and writing English fluently is essential.
* Interested students should have basic knowledge of urban planning.
* Experience in architecture and city research- especially in climate change research would be an advantage.

**Main Tasks:**

* Literature reading, sorting and reviewing.
* Participating in and conducting at least two experiments.
* Writing a report or paper and presenting it.

**Website:**

Lab: N/A