INTERDISCIPLINARY PROJECT BASED DESIGN 1

Department of Industrial and Agricultural Building Design and Department of Mechanics, Materials & Structures

MELTING MUSIC

A journey to kinetic architecture

Moving elements are not usual on the territory of architecture, we rather like to use stabil part. On the other hand kinetic architecture holds plenty of inspiring and challenging opportunity. In this course we like to invite You for an experimental design process, where student teams observe these opportunities.

In this project student teams will be asked to design architectural objects with moving elements. We encourage exploration of the borders of architecture through visualization, using physical models (LEGO, wood, metal, etc..) and digital models (Grasshopper). Kinetic architecture is a very rich and fascinating area even though most examples of it is complicated, expensive, and suffer from lack of durability and reliability. To explore the potential and the challenges of this area, each project has to cope with three key questions:

USEFULNESS: What is the purpose or the meaning of motion?

RATIONALITY: How is motion created? Can it be relatively simple, reliable and sustainable? EXPERIENCE: What's the experience people gather through the building? Could this solution be used comprehensively in other projects?

Some inspiring examples:



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