

CAST YOUR SPIN

# RE\_FORM

Workshop: Basics of Parametric Tools for Designing  
Campus: Pearl Academy, Rajouri

Project Name: Re\_Form | Cast Your Spin  
Course: Interiors and Architecture Design  
Softwares on Power: Grasshopper, Rhinoceros  
About: Functionality and Competancy of Basic Tools of Parametric Design

Parametric Design: With set elements and algorithmic controls, parametric design provides its user with massive fluidity to produce distinct design iterations with every minugia shift in the defined parameters. The user can build relationships between diverse parameters in order to recieve a variety of unique forms with the same elements.

## Concept:

Every individual has its own distinct choices, personality, and expressions, with the same token, 'Re\_Form' is positioned as a physical gaming experience which allows the user to encounter eccentric and quirky face forms drafted with the power of parametric tools of design. The model (also, fabricated using basic tools of parametric design) is precisely a three-dimensional representation of parametric designs' essence wherein on each spin, multitude iterations come forward to be cast.

## Further into the Execution:

The established concept could be executed using basic tools of parametric design which were Rhinoceros with Grasshopper plug-in. Grasshopper enabled us to manufacture multiple iterations from a single form. For instance in the case of Hair by establishing one geometry and building relationship between parameters multiple permutations and combinations could be produced. Rhino was used at both beginning and end stages to build base geometries/ curves and at the end to tweak and refine artworks. Also, for rendering, applying colors and textures as materials to the elements. The three-dimensional model was laser-cut with specified dimensions and OHP printing was used for iterated layers of the face. The fabrication is the tedious output of a months' learning and experimentation.



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Web URL for Interaction:

<https://re-form.000webhostapp.com/>

User Interaction Steps:

1. Click Full Screen
2. Use Space Bar to Interact

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