

RHINOCEROS FOR INDUSTRIAL DESIGN

Re-Imagining Parametric Design Workshop

DESCRIPTION

Grasshopper for Architecture explores design challenges and helps to Design, Construct, Model, Analyze and present.

Grasshopper is a visual programming platform which allows to Generate, Manipulate and automate Data. The participants will be guided in developing skills on computational design and parametric approaches which will lead to form finding and optimization through various parameters.

Our vision is to develop intuitive modeling skills in a logical way which helps in the development of computational modeling for conceptual and detailed design.

- Understand the competence of Grasshopper in Architecture
- Explore native tools of Grasshopper along with Paneling tools plugin
- Understanding Grasshopper and its relation to Rhino3D
- Understanding logics and Managing Data in Grasshopper
- Generation of Geometric patterns and Iterations for facades

TUTORS

Yokes Marapa L S

Founder | Training Manager
Lead Trainer for Rhino3D at YAFT Designs

<https://www.linkedin.com/in/yokes-marapa-791b06216/>

COURSE STRUCTURE:

In this course, Participants will be exploring and developing critical geometries and advanced logics in Grasshopper.

The advanced session also employs Plugins like Paneling tools which supports intuitive design of panelling concepts as well as helps rationalize complex Products.

COURSE DURATION:

5 Days / 6 Hours a day (Total - 30 Hours)

COURSE SCHEDULE:

Dates	Description	Trainer
Day 01	Introduction to Rhinoceros Introduction to Rhino interface, units, tolerances, and precision curve drawing with CNC mindset. Students model basic solids and understand tool diameter, fillets, and manufacturable geometry.	Yokes
Day 02	Surface and Industrial Form Modeling Hybrid surface + solid modeling for industrial forms using Loft, SubD, and BlendSrf. Focus on creating smooth product shells and breaking them into CNC-friendly parts.	
Day 03	Advanced Solids and Assemblies Hybrid surface + solid modeling for industrial forms using Loft, SubD, and BlendSrf. Focus on creating smooth product shells and breaking them into CNC-friendly parts.	
Day 04	Grasshopper Fundamentals for CNC Design Grasshopper basics for parametric CNC parts like plates, slots, and patterns. Students learn sliders, offsets, and dogbone logic for machine-ready geometry	
Day 05	Grasshopper Automation and Final Project Grasshopper automation for perforated panels and batch DXF export, followed by a mini project delivering parametric models and CNC files.	

COURSE FEE : *(exclusive of taxes)*

Description	Total Amount
Course Fee for Group Batch (10% Discount for Students)	INR 25,000 /-
Course Fee for Personal Training	INR 28,000/-

COMPUTER REQUIREMENTS

We prefer Microsoft Windows OS.

https://www.rhino3d.com/system_requirements/

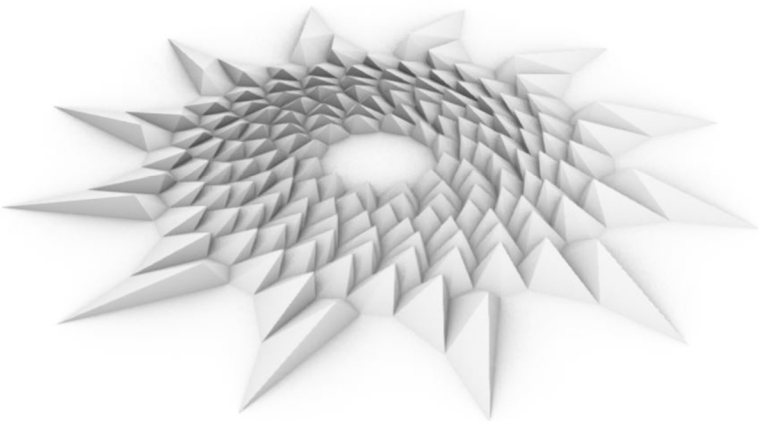
Computer / Laptop , Laptop charger, Mouse and Mouse pad is mandatory

TERMS AND CONDITIONS:

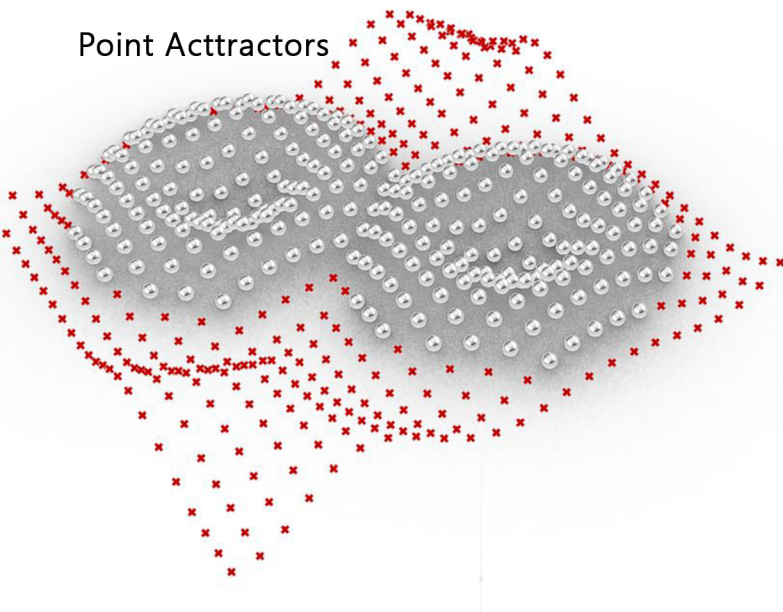
1. Taxes will be applicable to the above charges.
2. Payment terms:
60% Advance Payment upon blocking of Dates.
40% Upon commencement of classes.
3. Payments can be done by NEFT
Account No. 923020024949657
Account Name: YAFT DESIGNS
Bank: Axis Bank
Branch: NASIYANUR , ERODE
IFSC CODE: UTIB0001293



Voronoi and patterns



Point Attractors



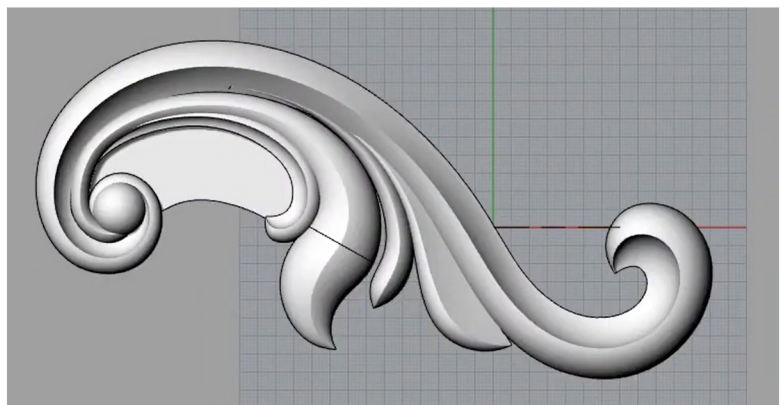
Soft Move



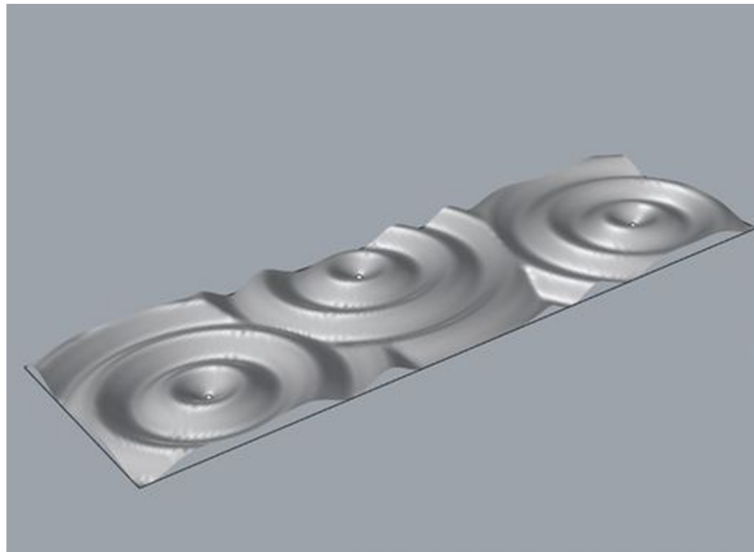
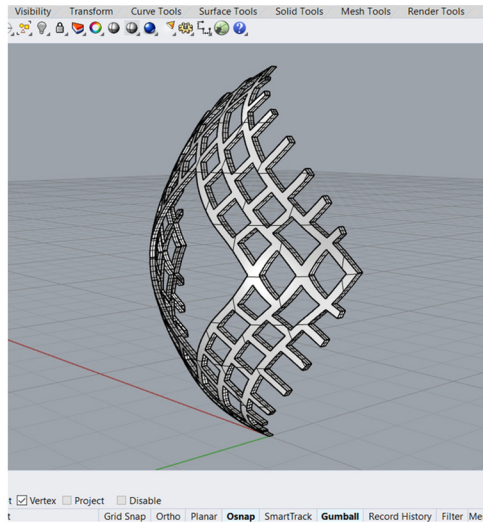
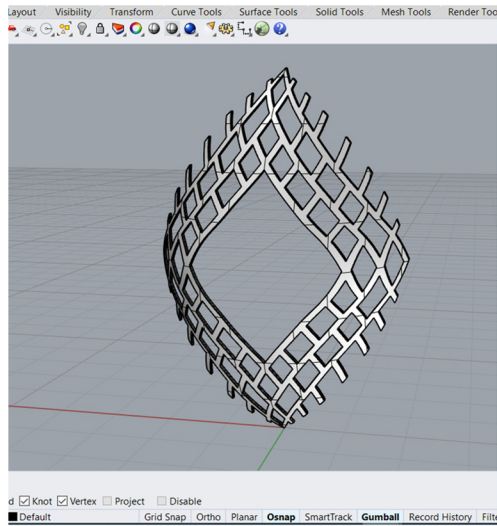
Cuiling and Vector Fields



Wood Decor



Flow on Srf



Parametric Digital Assembly Technique



Twisting Furniture - Assembly