

FUNCTION-DRIVEN GENERATIVE DESIGNER

(Physical Workshop/ training on high- end work station and CATIA)

The Function Driven Generative Designer role allows the designer to capture all functional specifications and geometrical inputs, but also analysis inputs, optimization targets and constraints. The Generative aspect comes from the modeling reduction in this process. Concept shapes are generated from a simple push button to obtain an exact representation, and we can easily validate the structural behavior of this concept. With such a design study, the Designer can easily create, visualize, and compare different variants and their resulting KPIs to perform a trade-off and select the best concept. This workflow is also based on the manufacturing constraints defined upfront and handles Additive Manufacturing along with more traditional processes such as milling, cast, and forge. As the Designer moves on to Detailed Design, he has at his disposal different sets of capabilities to assist him with the detailed modeling of the part, which can still easily be structurally validated before moving to manufacture.

KEY BENEFITS OF THE PROGRAM-

- ❖ Ability to create and define design space partition, meshes, functional regions
- ❖ Ability to apply loads, restraints, and connections and define load cases
- ❖ Understand the concept of Functional Generative Shape Design, Target optimization, optimized shape creation, and scaling
- ❖ Ability to create trade-off studies for conceptual shapes and study their KPIs
- ❖ Ability to create a refined shape using IMA tools
- ❖ Capture a set of functional specifications for conceptual exploration.
- ❖ Generate conceptual shapes on target and constraints.
- ❖ Manage concept variants and perform trade-off study.



➤ [For reply form : Click here](#)

Fees – INR 2000 + GST (10% extra for ACMA non-members)

**20th July 2022,
Wednesday (0930 hrs. –
1800hrs)**

TRAINING VENUE

ACMA Centre of Excellence (ACoE) -SAKSHAM, 1st Floor, I- Tech IITD Campus, Plot No: 4(B), Rajiv Gandhi Education City, Sonapat, Haryana – 131029. Google Map location - <https://goo.gl/maps/UT5hnEa5RtmqviX88>

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