

SAEISS Presents TOP Tech Program on **Generative Shape Design** 29 - 30th Sep 2023, Chennai

About the Course

Generative design is a design exploration process. Designers or engineers input design goals into the generative design software, along with parameters such as performance or spatial requirements, materials, manufacturing methods, and cost constraints. The software explores all the possible permutations of a solution, quickly generating design alternatives. It tests and learns from each iteration what works and what doesn't. Generative design is changing the way we design, engineer, and manufacture the products of tomorrow.

Speaker Profile

Mr. Vipul Agrawal

Cloud Solutions Technical Specialist,
Autodesk, INDIA and ASEAN



Vipul Agrawal has experience in the Product development and manufacturing industry for 10+ years. He holds a master's in manufacturing technology degree from IIT Bombay and a Mechanical Engineering bachelor's degree. As an application engineer in his early career, he has worked to understand the requirement and workflow of the industry and implemented solutions to increase their manufacturing efficiencies. His experience in Design and Manufacturing industry lies in providing solutions across different industries like medical, automotive, aerospace, oil and gas etc in Designing, Manufacturing, Design and Manufacturing Automation and Manufacturing Execution systems. Currently he is handling the cloud solutions portfolio of Autodesk Design and Manufacturing and helping industry for technological upscaling.

Learning Objective:

- Gain hands-on experience with generative design tools
Learn how to leverage AI in the design process Acquire new design methodologies and approaches.
- Network and collaborate with other designers and professionals in the field.
- Acquire skills to optimize design processes and improve efficiency.

Course Outline

- What is Generative Design?
- Traditional Workflows vs. Generative Design
- Generative Design and Automated Design
- Case Study Examples

Hands on Exercise on the below 4 aspects

- Generative Design for Performance improvement and weight reduction
- Generative design for Additive manufacturing design or Manufacturing design change
- Generative Design for Part consolidation
- Generative for Fluid Flow

Who Should Attend?

This workshop is for practicing engineers and managers involved in design and development of products in automotive industry & designed to assist individuals in various industries including. Companies' senior executives, engineering managers and engineers will find the course relevant and informative.

Course Fee

Non-SAEINDIA Member - Rs. 10,000 + GST

SAE INDIA Member - Rs. 5,000 + GST

SAEINDIA Faculty - FREE

Registration Link:



<https://forms.gle/v9vebx4qxt7b7nGt8>

Last Date of Registration :21.09.2023

Online Account Details

Account Name: SAEINDIA Southern Section

Account Number: 38517580801

Bank: State Bank of India,

Branch: Guindy, Chennai

ISFC Code: SBIN0000956,

Contact

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