

**Bansilal Ramnath Agarwal Charitable Trust's**  
**Vishwakarma Institute of Information Technology, Pune – 48**  
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)  
(Approved by AICTE, New Delhi)



## **Department of Mechanical Engineering**

### **A Report On Industrial Training (AY 2021-22)**

1Dr.Pravin PHujare



# Training Report

## AUTOMOTIVE DESIGN

India has always attracted global automakers due to its supportive government policies and favorable automotive investors. With leading brands entering the Indian market and the constant growth of the local automotive industry, there are enormous opportunities to sculpt a career in this industry.

### Content

- Vehicle architecture – A historical perspective
- Automotive body layout, proportions, packaging and themes
- Introduction to free hand sketching of simple geometries
- Sketching in perspective: 1-Point, 2-Point and 3-Point Perspectives
- Sketching car block in 1, 2, and 3 point perspectives
- Sketching car side view proportion Sedan, SUV, Sports car, Compact car and Truck
- Sketching car front view proportion
- Sketching car  $\frac{3}{4}$  front view
- Sketching car  $\frac{3}{4}$  rear view
- Concept car sketching
- Best practices in Shading and Rendering
- Digital rendering using Sketchbook pro
- Project

Automotive Design Process Reference Link

<https://www.youtube.com/watch?v=LZM10CsSrMg>



## AUTOMOTIVE DESIGN

- ❖ It is a design discipline dedicated to designing the appearance and ergonomics of automobiles
- ❖ Automotive designers design the appearance, the components, and often to the ergonomics of automobiles and other road vehicles

### COURSES INCLUDED IN AUTOMOBILE DESIGN ARE :-

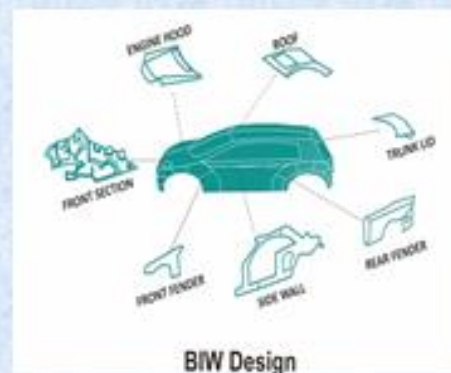
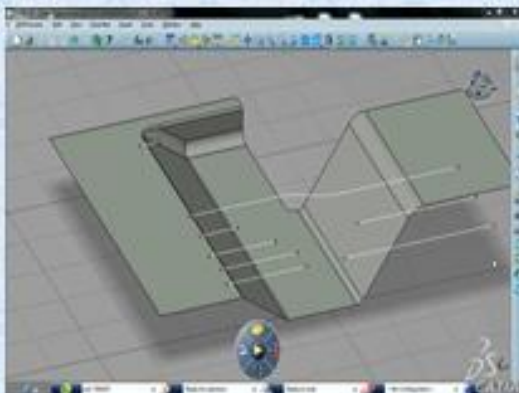
- BIW(Body in White) design
- Computer Aided Analysis
- automotive sketching & vehicle fundamentals

SOFTWARES WE USE



## BIW(BODY IN WHITE)

- Body in white is most basic step in automobile design.
- This course training focuses on exercises and techniques in BIW design.
- BIW focuses on Shell body design for automotive products.

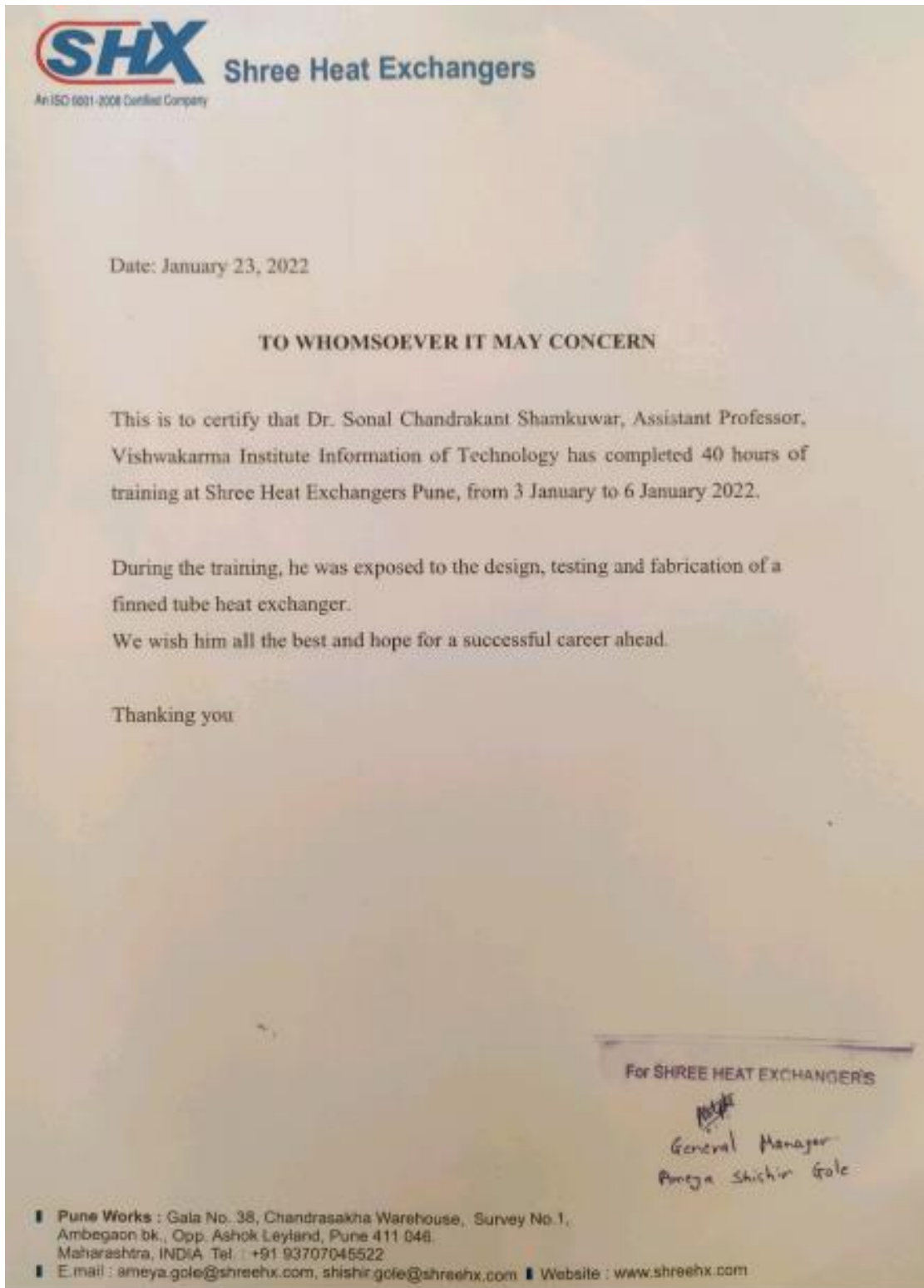


BIW DEMONSTRATION ON CATIA

<https://www.youtube.com/watch?v=syeFCmTdG3s>



## 2. Dr.Sonal C Shamkuwar



# Training Report

## Industrial Training for Faculty Technical Development Shree Heat Exchangers, Pune

By

**Dr. S.C.SHAMKUWAR**

Assistant Professor

Department of Mechanical Engineering

3/01/2022 to 06/01/2022



## Industrial Training for Faculty Development in Core Subject Shree Heat Exchangers, Pune

**Name of Faculty** – Dr. .S.C.Shamkuwar,

**Schedule** – 3 to 6 Jan 2022 (SCS)

**Total Duration in hours** – 40 hours

**Objectives** – To Understand the design, manufacturing testing and of Condensers used in Chillers

**Relevant Subject** – Design of Thermal System (Elective IV, Btech), Heat Transfer (III Year)

**Industry Address** – Shree Heat Exchanger, Chandrasekhar Warehouse, Ambegaon

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## Detailed training Plan

	03/01/2022 28/12/2021	04/01/2022 29/12/2021	05/01/2022 30/12/2021	06/01/2022 31/12/2021
Design of Plate heat Exchanger, Testing	✓	✓		
Design and Fabrication of finned tube heat exchanger			✓	✓



Plate heat exchanger



Fin tubed Heat exchanger



# Dr.Sandip S Kore

 **Shree Heat Exchangers**  
ISO 9001:2015 Certified Company


Date: 01/01/2022

**CERTIFICATE**

This is to certify that Dr Sandeep S. Kore, Associate Professor of Vishwakarma Institute of Information Technology, Pune has undergone industrial training in our organization from 28/12/2021 to 01/01/2022(40 hours).

He was found sincere and hardworking during the training.

We wish him best in his future endeavors.

For SHREE HEAT EXCHANGERS  
  
General Manager  
Ameya Shishir Gole

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