



**sym||metric™**  
Solutions

**Training , Services & Consultancy  
in**

**CAD/CAM/CAE & Graphic Design**

## About us

- Symmetric Solutions, a pioneering and growing organization which provide training and consultancy in engineering design. We are perfectionist of CAD-CAM-CAE solutions for industrial projects.
- We provide Product design, 3D modeling and drafting services in various industries of different engineering fields. We also provide very innovative and attractive Graphic & Web Design solutions to industr & commercial organi ations.
- We have crafted various design courses for students of all different engineering branches like Automobile, Mechanical, Production, Civil, Electronics and many more. We have separate curriculum and expert faculty for each of these courses.
- Our mission is to take toughest problem and revert with a perfect solutions to industry.
- We always believe in **"Excellence at the Best"**.



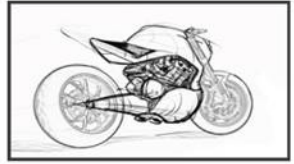
## Why symmetric?

- We always try to establish a strong connection between students and industrial requirements. We have so many **value plans** to carry out these requirements .
- We always emphasize on **individual attention** for valuable training.
- Our **highly qualified instructors** having vast industrial experience which can deliver more practical concepts of engineering.
- We combine classroom sessions with live project experience and various case studies to understand **practical concepts**.
- The faculties and the staff are committed to help the students to achieve their **dreams and success**.
- Students have opportunities to observe and taking part in **live ongoing projects**.
- We have arranged a **library section** for students, so they can easily found books & magazines related to design.
- We have **Ultra-modern facilities** in audio-video room and highly configure computer lab for theory & practical sessions.
- We provide **life time membership & support** to students.
- We provide **free job assistance** to our students. Symmetric has done so many MOUs with industries and colleges for placement services.
- We **help students** for their academic projects (IDP/UDP) and industrial projects.

# Creo (Pro-E)

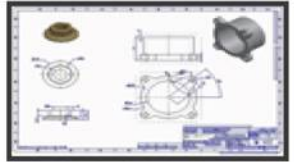
## ● Creo Parametric

- Introduction of CAD/CAM/CAE
- Design Concept & Procedure
- Concept of Parametric Design
- Sketcher



- Solid Part Modeling (Basic & Advanced)
- Surface Modeling (Basic & Advanced)
- Flexible Modeling
- Sheetmetal Modeling

- Assembly Modeling (Basic & Advanced)
- Format Creation
- Template Creation
- Detailing (Drawing)



- Rendering
- Product Animation
- Mechanism Simulation
- Welding

- Software Customization
- Mark up Features
- Advance Tweak Features
- Geometric Design & Tolerances



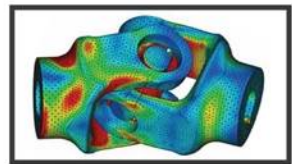
## ● Creo Sketch

## ● Creo View MCAD

## ● Creo Direct

## ● Creo Simulate (Pro-Mechanica)

- Static Structural Analysis
- Thermal Analysis



## ● MathCAD

## ● Industrial Visit / Project

# Other Courses

## ● Catia

- Sketcher
- Part Modeling
- Sheetmetal Design
- Wireframe Design
- Surface Modeling



- Shape Design
- Assembly Modeling
- Detailing (Drawing)
- Kinematic Simulation

## ● AutoCAD (2D - 3D)

## ● SolidWorks

## ● SolidEdge

## ● Inventor

## ● Ansys

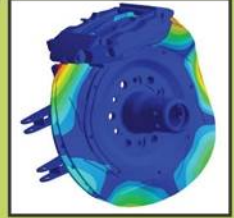
## ● MSC Nastran

## ● MSC Adams

## ● Altair HyperWorks

# FEA (Finite Element Analysis)

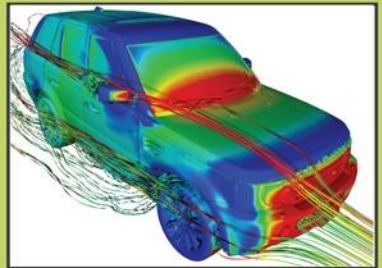
- Introduction of CAD/CAM/CAE
- Design Concept & Procedure
- Fundamentals of FEA
- Import Models & Interchangeability
- General Analysis Procedure
  - Preliminary Decisions
  - Preprocessing
  - Solution
  - Postprocessing
- Solid Modeling
- Create Finite Element Model (Mesh Model)
- Loading & Boundary Conditions
- Structural Analysis Using 1D Elements
- Structural Analysis Using 2D Elements
- Structural Analysis Using 3D Elements
- Dynamic Analysis
- Vibration Analysis (Harmonic Response)
- Modal Analysis
- Thermal Analysis (Conduction, Convection & Insulation)
- Transient Thermal Analysis
- Thermo Structural Analysis
- Coupled Field Analysis (Structural + Thermal)
- Spectrum Analysis
- Computational Fluid Dynamics (CFD)



## SERVICES

We also Provide Service & Consultancy in CAD/CAM/CAE to Industries.

- 3D Modeling
- 2D Drafting
- Reverse Engineering
- Mechanism & Animation
- Tool Design
- Die & Mould Design
- Mould Flow Analysis
- Static / Dynamic Stress Analysis
- Design Optimization
- CFD Analysis
- Motion Analysis
- Process Planning & Operation Management
- Design Data Management & Productivity
- Support For Manufacturing
- Architectural
  - Exterior Design
  - Interior Design
  - 2D Floor Plan
  - 3D Floor Plan
  - 3D Walkthrough



# Graphics

We also provide Training & Services in Graphic Design.



- Logo Design
- Corporate Identity
  - Business Card
  - Letterpad
  - Envelope
- Branding Design
- Brochure Design
- Image Editing
  - Photo Retouching
  - Photo Restoration
  - Background Removal
  - Photo Enhancement
  - Image Blending
  - Vector Conversion
  - Pop Art Creation
- Flash Design
- Logo Animation
- Animated Advertisement
- Character Animation
- Action Script
- Web Design & Development



# Facilities

- Library
- Design Lab
- Wi-Fi Zone
- Method Room
- Project Room



# Certificate



## Location



## Contact us

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