Training, Services & Consultancy in CAD/CAM/CAE & Graphic Design
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 industries & commercial organizations.

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
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
We also provide Training & Services in Graphic Design.

“Creativity Is a Drug, We Can’t Live Without It.”

- 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