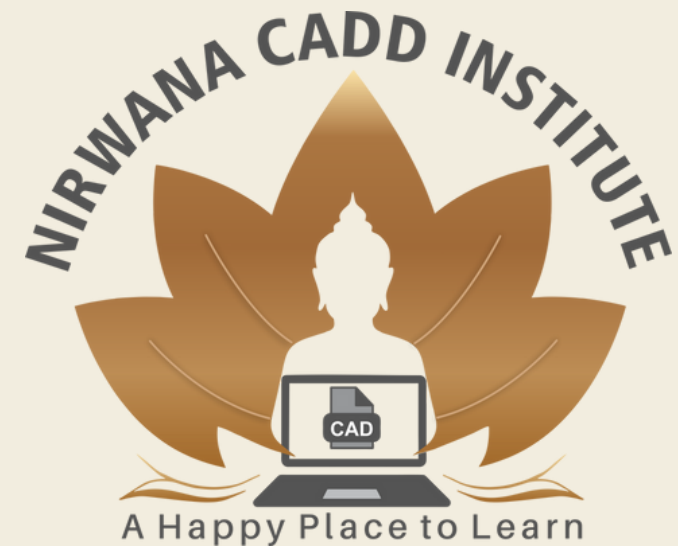# NIRWANA CADD INSTITUTION

A HAPPY PLACE TO LEARN

CONTACT US

6361389494
Nirwana Institution
Yelahanka New Town
Bengaluru - 560001

Harnessing one's potential through superior education and values formation.

NIRWANA CADD INSTITUTE

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ABOUT US

Welcome to Nirwana Institution, your premier destination for mastering Computer-Aided Design (CAD) and related technologies, we have been at the forefront of CAD education, equipping individuals with the skills necessary to thrive in today's design and engineering fields.

At Nirwana Institution we offer a comprehensive range of courses tailored to meet the diverse needs of students and professionals alike. Whether you are just starting your journey in CAD or looking to expand your expertise, our expert instructors are here to guide you every step of the way. Our state-of-the-art facilities provide a conducive learning environment, complete with the latest software and equipment. We believe in hands-on, practical learning experiences that prepare our students for real-world challenges.

ACTIVITIES

Activities at a NIRWANA encompass a diverse range of offerings aimed at equipping students and professionals with essential skills in computer-aided design. These include comprehensive training courses covering various CAD software applications like AutoCAD, SolidWorks, and Revit,.etc, spanning from introductory to advanced levels. Practical, project-based learning forms a cornerstone, enabling hands-on experience in real-world design scenarios and more.

MISSION

Our mission at the NIRWANA is to empower individuals with the knowledge and skills necessary to excel in the dynamic field of computer-aided design. Through innovative and industry-relevant training programs, we aim to cultivate a community of proficient CAD professionals who are equipped to meet the evolving demands of global industries. We are committed to providing a supportive learning environment that fosters creativity.

FACULTY

The faculty at a NIRWANA comprises seasoned professionals and experts with extensive industry experience and a deep understanding of computer-aided design technologies. They are dedicated instructors who bring practical knowledge and theoretical expertise into the classroom, ensuring students receive comprehensive guidance. Many faculty members hold advanced degrees in engineering or related disciplines, and some maintain active roles in industry projects, contributing to the latest advancements in CAD.

VISION

Our vision at the NIRWANA is to be recognized as a global leader in computer-aided design education and innovation. We aspire to pioneer advancements in CAD technologies and methodologies, shaping the future of design across industries. By fostering a culture of continuous learning and collaboration, we aim to empower our community to push the boundaries of creativity and efficiency in design. Through strategic partnerships, research endeavors, and cutting-edge curriculum development, we envision equipping individuals with the skills and insights needed to thrive in a digitally-driven world, driving transformative change and making a positive impact on society.

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OFFERED COURSES

- ✦ AutoCAD
- ✦ CATIA
- ✦ CREO
- ✦ Solidworks
- ✦ Seiemns NX/UG(Unigraphics)
- ✦ Ansys
- ✦ Hypermesh
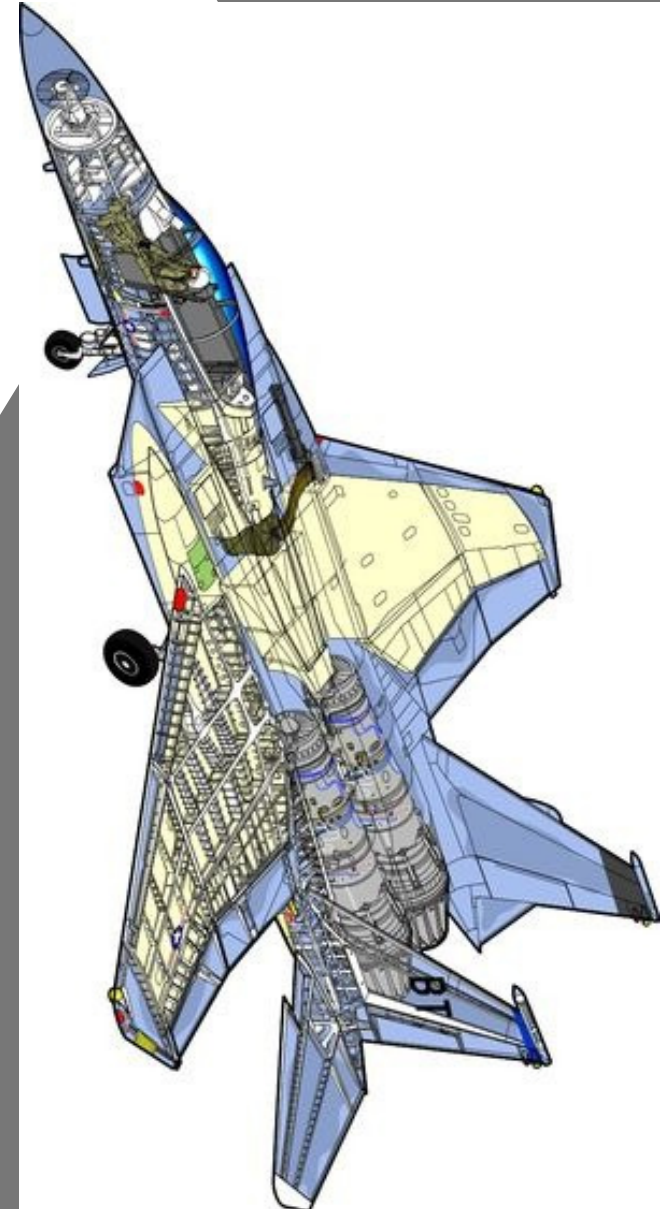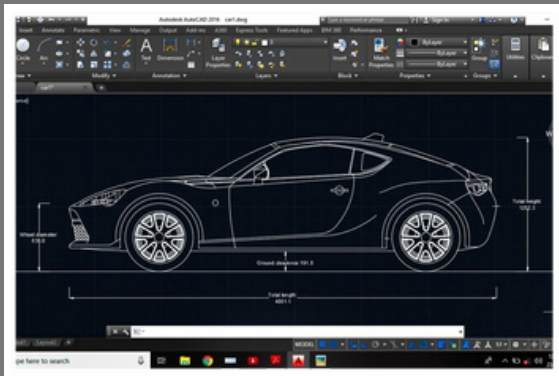
AUTOCAD

- Introduction to Mechanical AutoCAD
- Creating Basic Geometry for Mechanical Drawings
- Dimensioning and Annotation Standards
- Working with Mechanical Components
- Advanced Editing and Modification Techniques
- Creating and Managing Bill of Materials (BOM)
- Working with Mechanical Drawings and Views
- ntroduction to 3D Modeling in Mechanical Design
- Advanced 3D Modeling Techniques
- Mechanical Detailing and Documentation
- Customization and Automation for Mechanical Design
- GD and T.

Duration - 60 hours
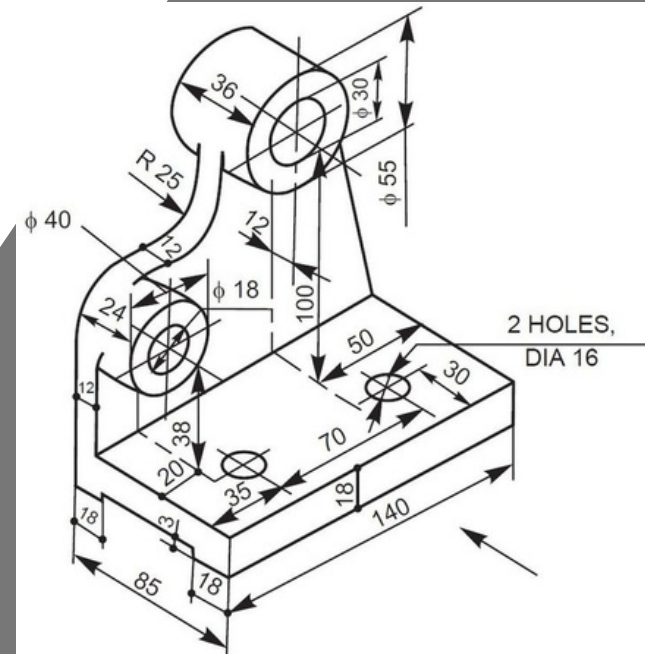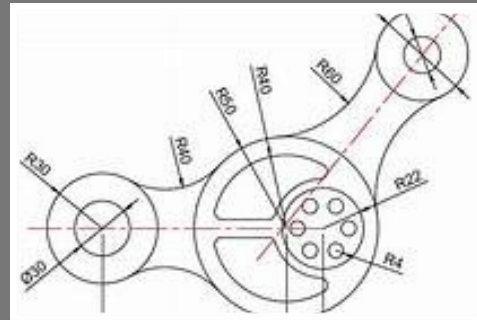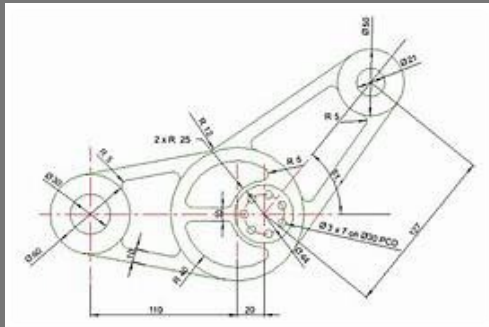
CATIA

- Part Design: Allows creation of 3D parts from sketches.
- Assembly Design: Facilitates the assembly of parts into complex products.
- Generative Shape Design: Specializes in creating and manipulating advanced surfaces and shapes.
- Drafting: Enables the creation of 2D drawings from 3D models, including annotations, dimensions, and GD&T (Geometric Dimensioning and Tolerancing).
- Sheet Metal Design: Specific tools for designing sheet metal parts.
- Surface Design: Advanced tools for creating and manipulating complex surface geometries.
- DMU (Digital Mock-Up): Allows visualization and validation of product.

Duration - 80 hours
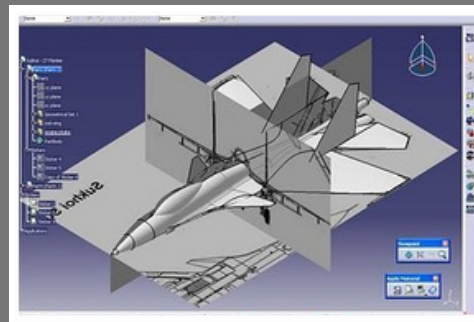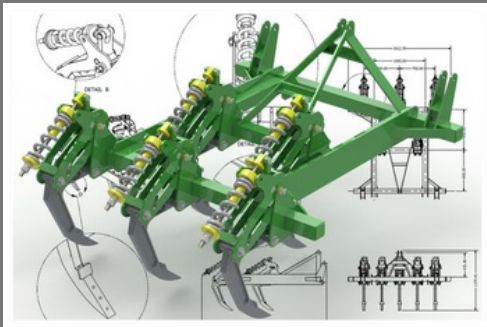
CREO

- Introduction to Creo.
- Part Design: Allows creation of 3D parts from sketches.
- Assembly Modeling
- Drafting Modeling
- Sheet Metal Design
- Surface Modeling
- Mold Design
- Mechanism Design
- Generative Design
- Data Management and Collaboration
- Project Work and Case Studies
- Review and Assessment

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Duration - 80 hours
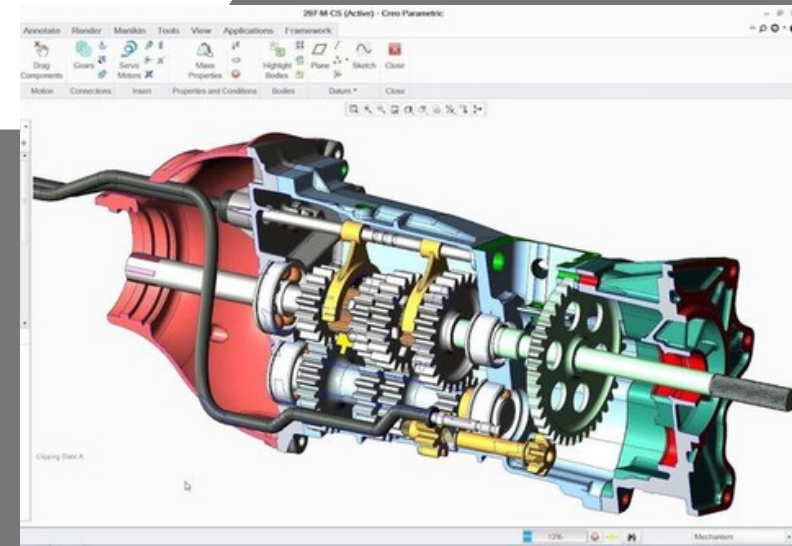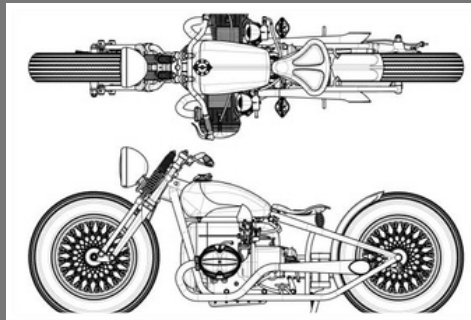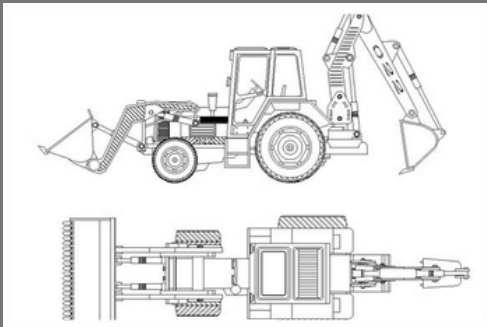
SOLIDWORKS

- Introduction to SolidWorks.
- Sketching and Part Modeling
- Assembly Modeling
- Drafting
- Sheet Metal Design
- Surface Modeling
- Mold Design
- Drawing and Documentation
- Data Management
- Advanced Techniques and Customization
- Project Work and Case Studies
- Review and Assessment

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Duration - 80 hours
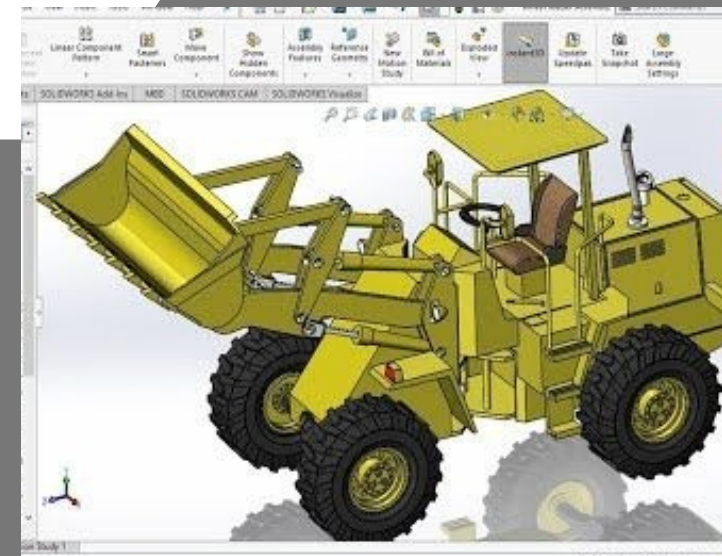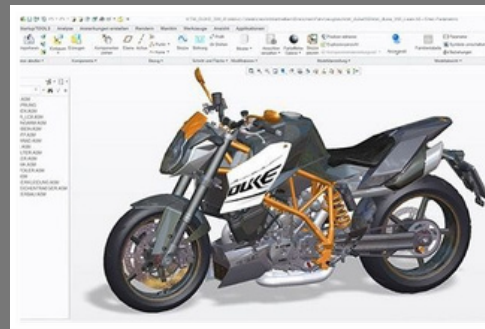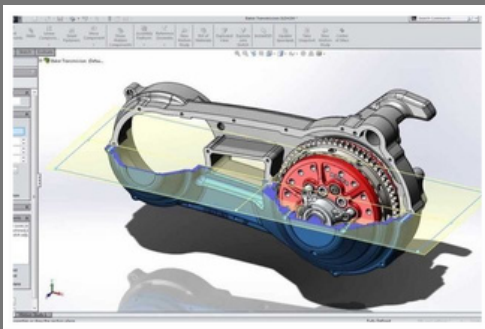
NX/UG

- Introduction to NX/Unigraphics.
- Sketching and Part Modeling
- Assembly Modeling
- Drafting
- Sheet Metal Design
- Surface Modeling
- Mold Design
- Drawing and Documentation
- Data Management
- Advanced Techniques and Customization
- Project Work and Case Studies
- Review and Assessment

Duration - 80 hours
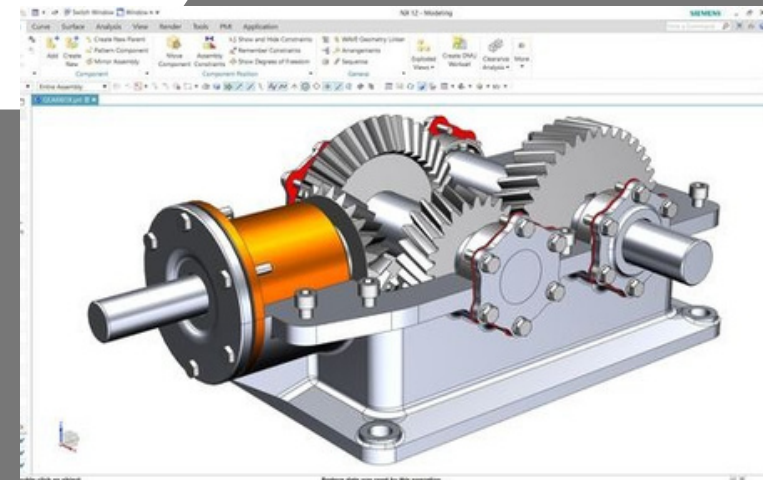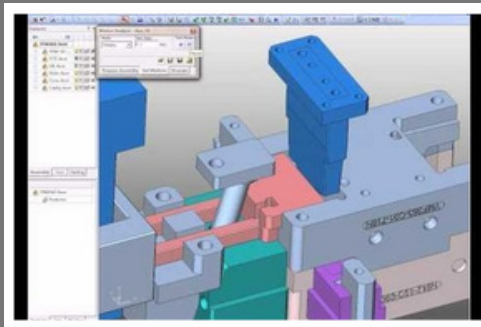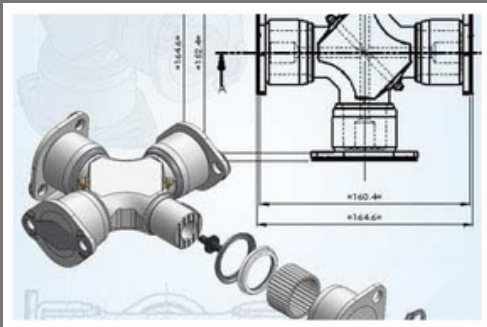
ANSYS

- Introduction to ANSYS.
- Geometry and Preprocessing
- Structural Analysis
- Thermal Analysis
- Fluid Dynamics Analysis
- Multiphysics and Coupled Analysis
- Modal and Harmonic Analysis
- Fatigue and Durability Analysis
- Optimization and Design Exploration
- Advanced Analysis Techniques
- Post-Processing and Results Interpretation
- Data Management and Automation
- Project Work and Case Studies
- Review and Assessment

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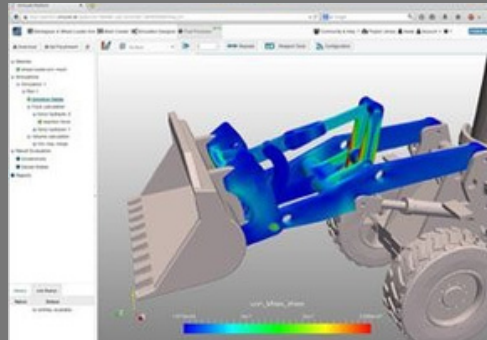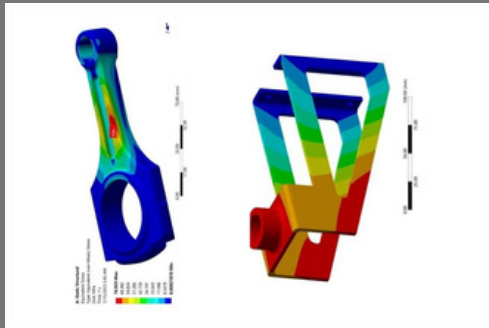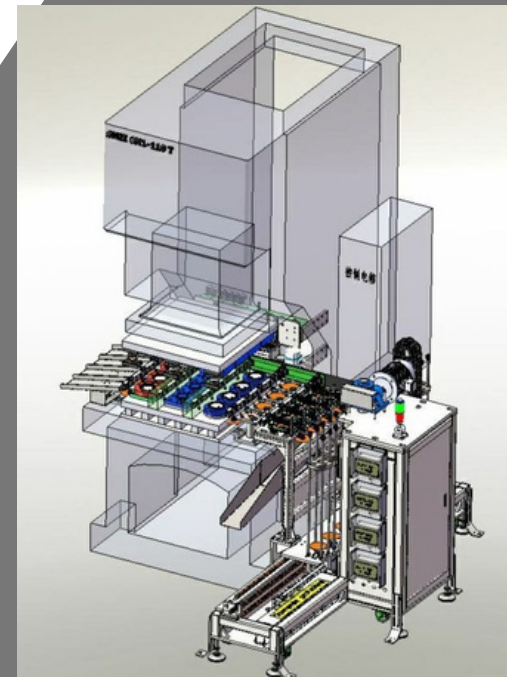
HYPERMESGH

- Introduction to HyperMesh
- Geometry Preparation
- Mesh Generation
- Material Properties and Boundary Conditions
- Assembly and Connectivity
- Pre-Processing for Analysis
- Post-Processing
- Advanced Analysis Setup
- Optimization Techniques
- Scripting and Automation
- Data Management and Integration
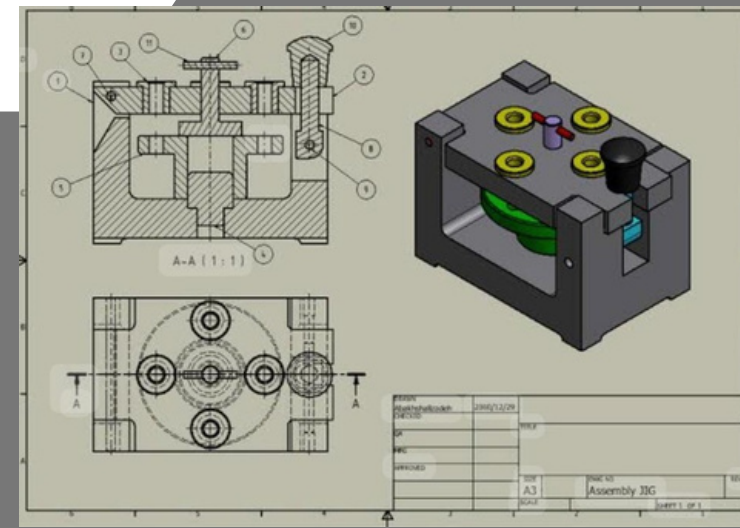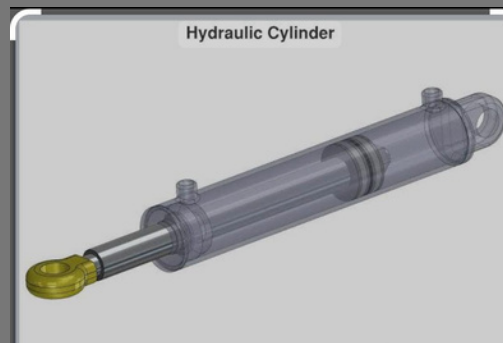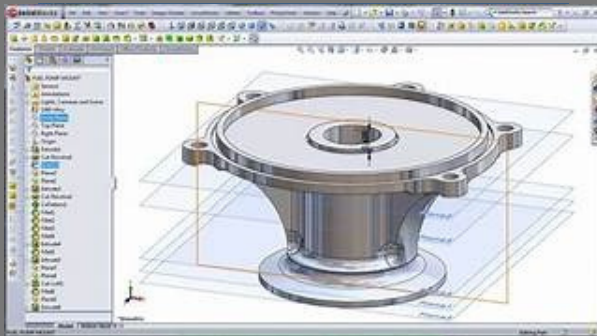- Project Work and Case Studies
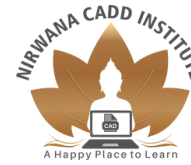- Review and Assessment

Duration - 80 hours
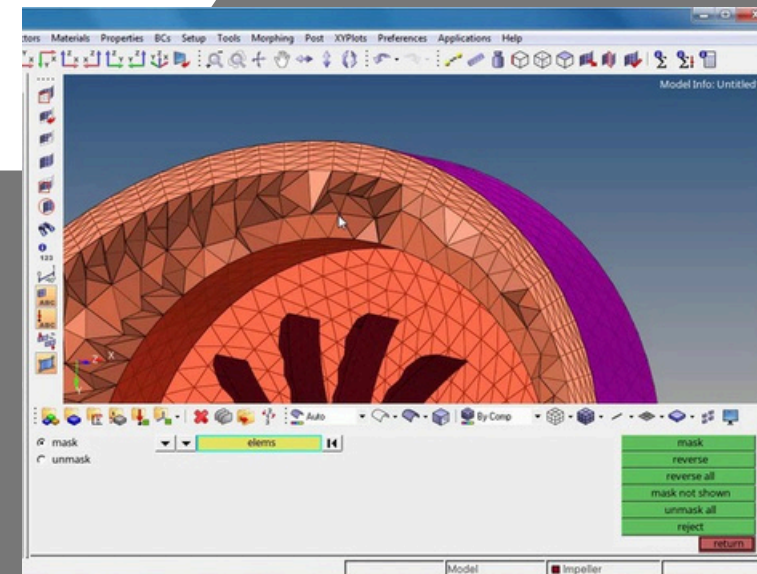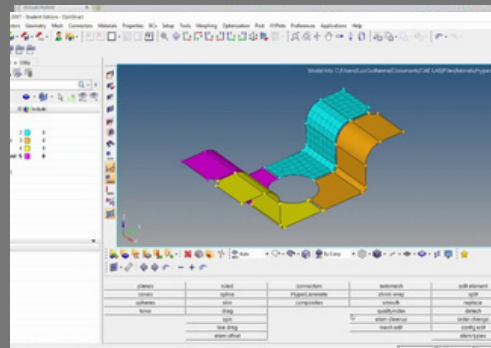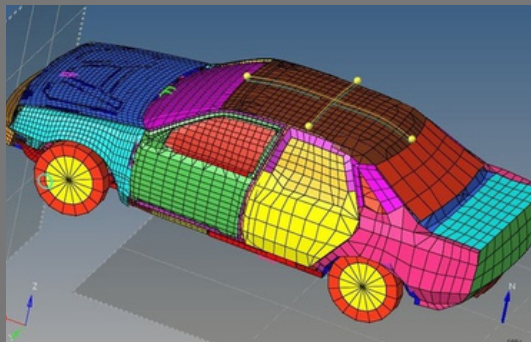
DESIGN SERVICES

- Jigs and Fixtures.
- Special purpose machines.
- Customized Designs.
- Tool holders and cutting tools.
- Mold design.
- Hydraulic cylinders design.
- Innovative designs.

Hydraulic Cylinder

A-A (1:1)

SERVICES FROM NIRWANA

- ## Hands on experience
- ## Experineced Trainers
- ## ISO Certificate
- ## Real time Projects
- ## Site Visits
- ## Placements Training & Placements

For more information kindly visit our centre
Nirwana Institute Yelahanka New Town
Landmark - Agarwal Eye Hospital
Bengaluru -560001

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