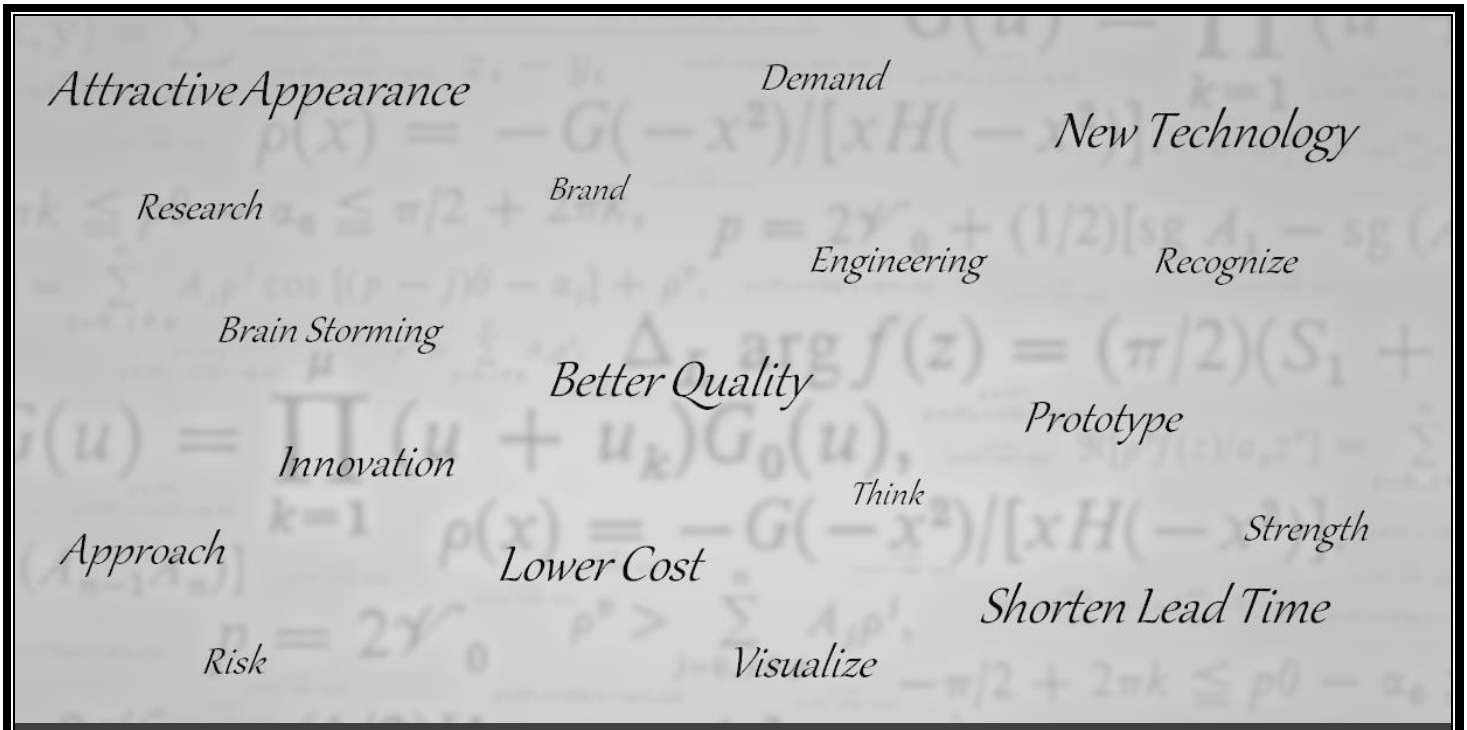


PARAS CAD CAM CAE

Paras is committed to provide cost-effective solutions that streamline manufacturing cycles, enable collaboration with outside vendors, and ultimately shorten product delivery time. With installations in the automotive, consumer plastics, and electronics industries, employ Paras' cutting-edge CAD CAM CAE solutions.

The Computer Aided Design, Manufacturing & Engineering (CAD CAM CAE) services & CAD Centre acts as a crucial link to foster the development of high value-added services and to streamline product innovation processes in India. Paras have proven history of success in Product Development from quoting-to-delivery.

Paras CAD CAM CAE with its CAD Centre, share knowledge on CAD CAM CAE, GD&T, Tool Design, etc. with the help of experienced engineers. Our engineers having a good experience with well-known companies and deliver their knowledge to Industries as well as Engineering students.

*Simply, "**We Believe In Creation**".*

Approach

We are passionate creativity nature to adapt client process and methodology which bring client satisfaction, fulfill needs and solve their challenges. We are always committed and ready to invest in long relationship. Our competency in client's project & program.

Design & Engineering

We are accompanying CAD CAM CAE facilities used by creative, well experience design engineers who are always supported by relative domain experts. Our team deep dive into user needs to find unique convenient solutions.

PARAS
CAD CAM CAE
e Engineering Services & CAD Centre

CAD CAM CAE

Course covers 3D modeling for any kind of industrial or commercial component. We will teach you all type of complex solid & surface modeling tools to make world's most complicated model. Learn how to create and manage most complex assembly. Even manage large assembly which having a more than 10000 parts. We will cover advance assembly tool to make simplify representation, exploded view, Parent child relationship to satisfy all your industrial needs.

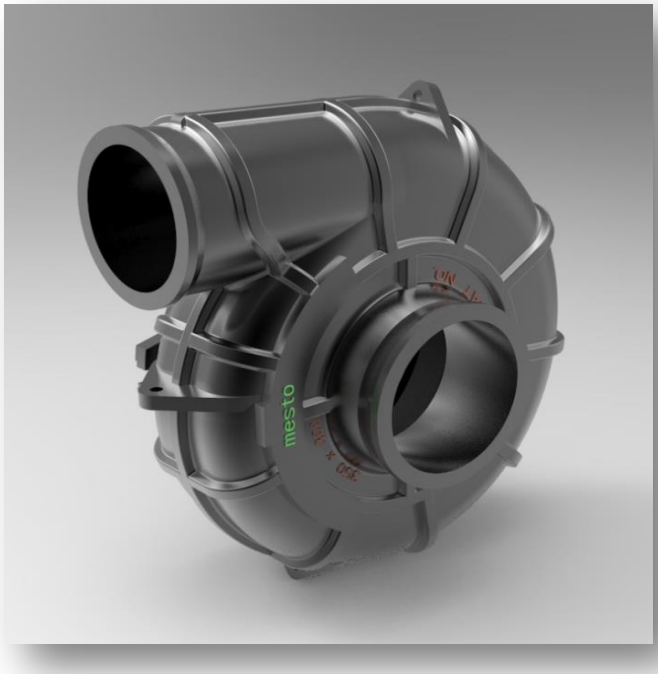
Learn CNC Machine Programming through CAM Package (Computer Aided Manufacturing), getting depth knowledge about CNC Machine fundamental, Manufacturing Technology, Manufacturing Process, Tool Technology, Jig Fixture design, etc. We teach you from very beginning & in detail to make you perfect in real machining world. We offer onsite practical training for the same.

CAE (Computer Aided Engineering) is essential in industries, as they cannot afford more no of trials, rework and product failure at customers end. In did FEA is important part of engineering, we share our knowledge to engineers through our CAD CAM CAE Centre. At the end they will be master in CAD CAM CAE.

- *Creo Parametric*
- *Creo Manufacturing*
- *AutoCAD*
- *Catia*
- *Hyperform*
- *Ansys*
- *Pro Engineer*
- *Creo Simulation*
- *Solidworks*
- *Unigraphics*
- *Hypermesh*
- *Mastercam*

Computer Aided Design & Drafting (CAD)

- *Drawing Interpretation*
- *Engineering Standard*
- *Solid & Surface Modeling*
- *Assembly*
- *Drawing*
- *Sheet-metal*
- *Animation*
- *Mechanism*
- *Format*
- *Layout*
- *Markup*
- *Welding*
- *Rendering*
- *Customization & Migration*
- *2D & 3D Autobuildz*



AutoCAD

- *Industrial Drawing*
- *2D Drafting*
- *3D Modeling*
- *Productivity Tools*
- *Customization*
- *Autolisp*

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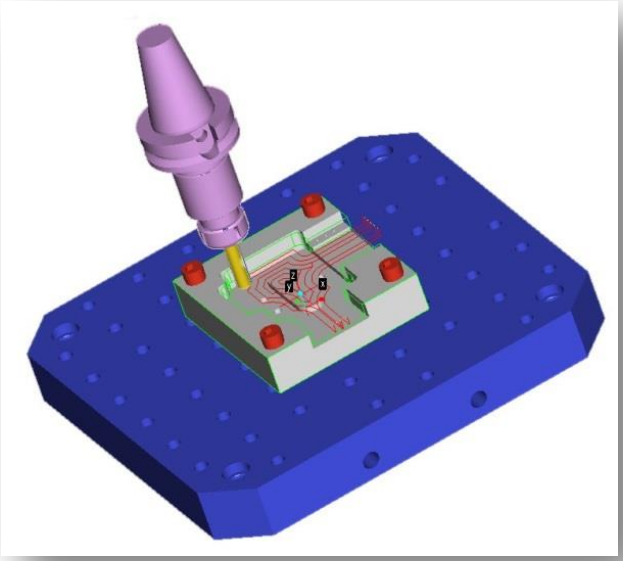
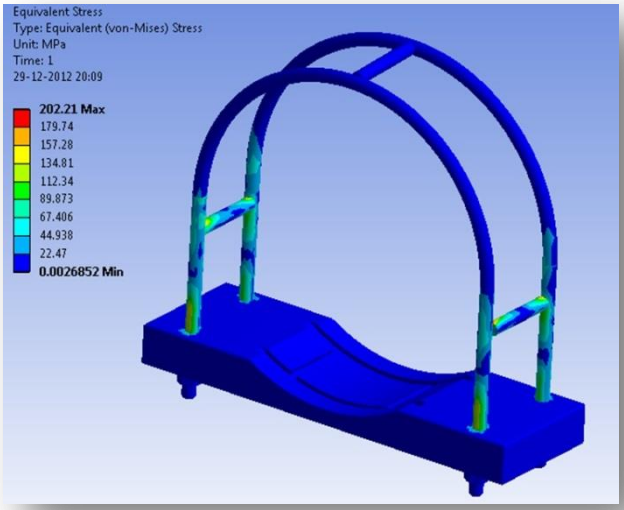
Computer Aided Manufacturing (CAM)

- *Fundamental of CNC Machine*
- *Tool Technology*
- *Jig & Fixture Selection*
- *Process Selection Parameters*
- *3,4,5 Axis CNC Milling Machine Programming*
- *2,4 Axis CNC Turning Programming*
- *CNC Wirecut EDM Programming*
- *Mill Turn*
- *NC Setup*
- *NC Process Simulation*
- *Vericut Simulator*
- *Interaction with DNC*
- *High Speed Machining*



Computer Aided Engineering (CAE)

- *Fundamental of FEM*
  (Finite Element Meshing)
- *Fundamental of FEA*
  (Finite Element Analysis)
- *Structure Analysis*
- *Thermal Analysis*
- *Fatique Analysis*
- *Motion Analysis*



CNC Machine Programming & Operating

CNC Machine Programming & Operating

We provide CNC Machine Programming and Operating training on CNC machine. Including brief knowledge about CNC machine fundamental, Tool Technology, CNC programming terminology, etc. we provide training on CNC Milling machine and CNC Lathe machine. We teach you from very beginning & in detail to make you perfect in real machining world.

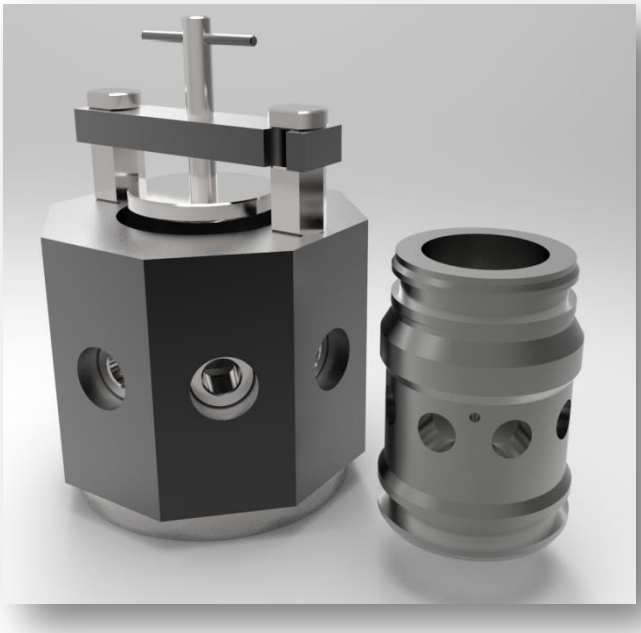
- *Fundamental of CNC Machine*
- *Different types of Operation & Process Parameters*
- *Work Holding Devices*
- *Work Locating Devices*
- *Types of Tools & Cutters*
- *Cutting Tool Selection Parameters*
- *Calculating of Manufacturing Parameters*
- *CNC Programming Terminology*
- *Common "G" Codes & "M" Codes*
- *Manual Programming on Machine Control Panel*
- *CNC Milling Machine Operating*
- *CNC Lathe Machine Operating*
- *Develop Test Piece on CNC Machine*
- *Project Work*

Jig & Fixture Design

Jig & Fixture Design

The jigs and fixtures are the economical ways to produce a component in mass. So jigs and fixtures are used and serve as one of the most important facility of mass production system. These are special work holding and tool guiding device. Quality of the performance of a process largely influenced by the quality of jigs and fixtures used for this purpose. What makes a fixture unique is that each one is built to fit a particular part or shape. The main purpose of a fixture is to locate and in the cases hold a workpiece during an operation. A jig differs from a fixture in the sense that it guides the tool to its correct position or towards its correct movement during an operation in addition to locating and supporting the workpiece.

- *Introduction of jigs and fixtures*
- *Purpose and advantages of jigs and fixtures*
- *Important considerations while designing jigs and fixtures*
- *Know the meaning and principles of location*
- *Describe the different types of locations*
- *Explain the clamping and its different type*
- *Requirements of a good clamping device*
- *Know the different types of clamps*
- *Explain the jigs and their different types*
- *Know about the milling fixtures*



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GD&T

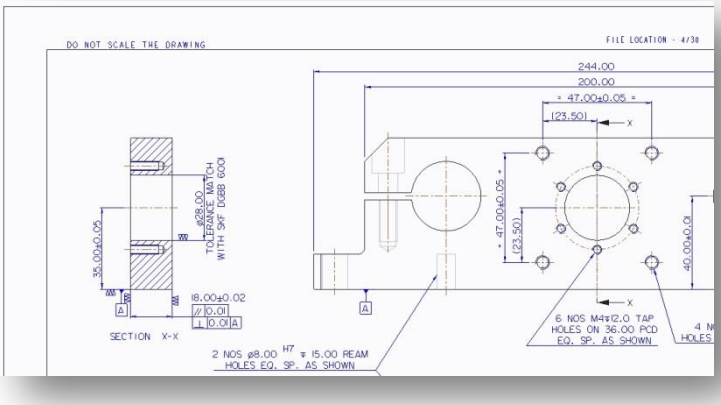
GD&T ASME Y14.5-1994

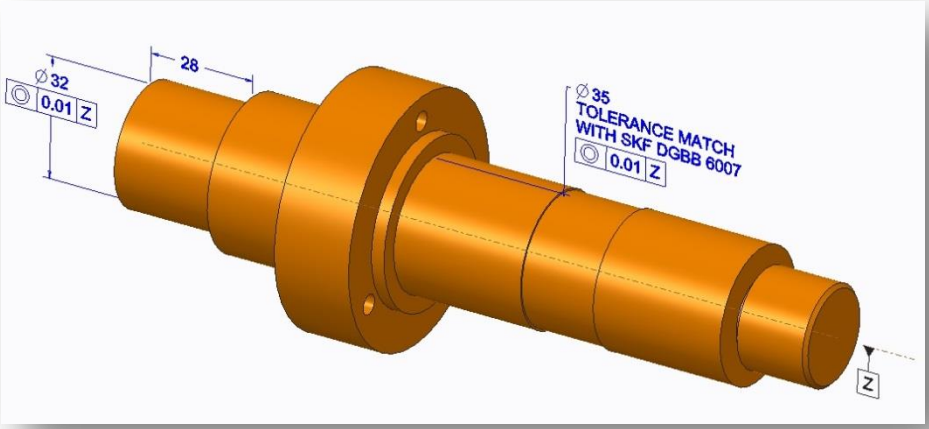
GD&T is a symbolic language. It is used to specify the size, shape, form, orientation, and location of features on a part. Features toleranced with GD&T reflect the actual relationship between mating parts. Drawings with properly applied geometric tolerancing provide the best opportunity for uniform interpretation and cost-effective assembly. GD&T was created to insure the proper assembly of mating parts, to improve quality, and to reduce cost.

GD&T is a design tool. Before designers can properly apply geometric tolerancing, they must carefully consider the fit and function of each feature of every part. GD&T, in effect, serves as a checklist to remind the designers to consider all aspects of each feature. Properly applied geometric tolerancing insures that every part will assemble every time. Geometric tolerancing allows the designers to specify the maximum available tolerance and, consequently, design the most economical parts.

GD&T communicates design intent. This tolerancing scheme identifies all applicable datums, which are reference surfaces, and the features being controlled to these datums. A properly toleranced drawing is not only a picture that communicates the size and shape of the part, but it also tells a story that explains the tolerance relationships between features.

- *Introduction to Geometric Dimensioning and Tolerancing*
- *Basic Principles of GD&T*
- *Dimensioning & Tolerancing Fundamentals*
- *Symbols, Terms and Rules*
- *Datum, Form and Orientation*
- *Position, General*
- *Position, Location*
- *Position, Coaxiality*
- *Concentricity and Symmetry*
- *Runout*
- *Profile*
- *Graphic Analysis*
- *A Strategy for Tolerancing Parts*





Salient Features

Faculty:

- *B.E or M.E*
- *Field Experience – Harsha, LUMIUM, Molex Micron, L&T, TCS, etc.*
- *Sound Technical knowledge & software skill*
- *Co-operative, Innovative & Sincere*

Reference:

- *L&T, BSL, Harsha, LUMIUM etc. Industries*
- *Nirma Institute, L D college of Engineering etc. Institutes*

Demonstration:

- *Contact us at any time on 9898214162 or 9428121046*
- *Reach us between 6:00 pm to 9.00 pm (Monday to Saturday)*

Salient Features:

- *Expert seminars for students on useful topics like Casting, Gear Design, E.G., Sheet-metal, FEA, etc.*
- *Special weekend Batches for students from outside Ahmedabad.*
- *Centralized A.C.*
- *Limited Students Batches.*
- *Centralized Wi-Fi Connectivity.*
- *Fast track weekend batches.*
- *Located on the route of BRTS (Near Manekbaug Hall BRTS Stand).*

Contact Us

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