

About CRISP

CRISP is established under Indo-German Cooperation agreement as an autonomous organisation of the Dept. of Technical Education and Skill Development, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of academic and teaching institutions, Students and Jobseekers. CRISP is equipped with the state-of-the-art equipment and technology, latest software, qualified, trained and experienced trainers in the relevant fields.

CRISP has its head office in Bhopal and training centres at several national and international locations.

Other training programmes in Mechanical Engineering offered at CRISP are :

- AutoCAD
- CAD/CAM - Pro-E/CATIA/Solid Works
- AutoCAD Electrical/Mechanical/Civil
- CNC Technology
- Car Mechatronics
- Industrial Hydraulics
- Industrial Pneumatics
- Mechanical Maintenance
- Industrial Hydraulics & Pneumatics



Patron Clients of CRISP



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Centre for Research and Industrial Staff Performance

(Established under Indo-German Technical Co-operation)

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CRISP

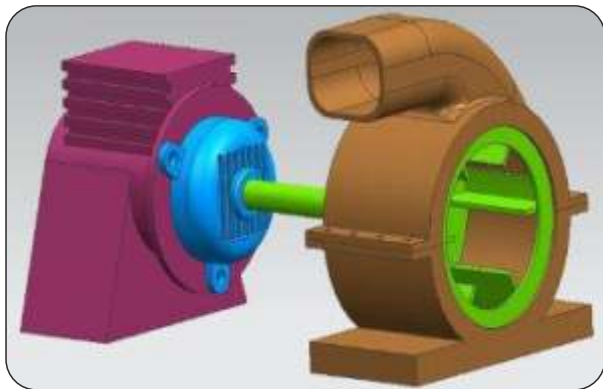
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CAD/CAM - UG-NX



...unleashing the full potential of men & machines

CAD/CAM - UG-NX



Introduction of Course

The concept of CAD/CAM in engineering practice is that individual functions in Design, Analysis and Manufacturing are computerized and integrated through a control computer data base shared among them. As a result the CAD/CAM system allows a user to interact with computer through a graphics terminal to define a design configuration, analysis the structure and its mechanical behaviour, perform kinematic study and modal testing, automatically produce engineering drawing.

CRISP has well designed training program on UNIGRAPHICS-NX software of CAD/CAM, aiming at developing the competencies in individuals for CAD/CAM technology.

Course Contents

Part Design

- Fundamental of Computer Aided Design (CAD)
- Overview of UG NX and Interface
- Use of Three Button Mouse, Roles

Sketches

- Creating Sketches –Line, Circle, Rectangle
- Geometric constants
- Solid modelling- Extruded, Revolved, Swept
- Boolean operation - ADD/Subtract/Intersect
- Fillet, Draft and Chamfer Features
- Reference elements Point, Plane, Axis

Mass Property calculation

- Area, Volume, CG, MI
- Distance of points, surfaces etc

Assembly Design

- Basic of Assemblies, Editing
- Assembly -Constraints
- Exploded Views, Interference/ Clearance Checking
- Bill of Materials

Drafting

- UG NX Drafting Interface
- Generate Drawing Views and Section
- Creation Dimension, Notes and Symbols

FEA (Finite Element Analysis)

- Pre-processing: Meshing Boundary conditions
- Solution: solve the resulting set of equations.
- Post processing: viewing the results

Mechanism Design

- Basic of Mechanism Design
- Mechanism simulation

Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice

Pre-requisite

- Industry personnel with relevant experience.
- Passouts or students pursuing Degree/ Diploma in Mechanical/ Production/ Automobile Engineering or equivalent.

Duration

Full time: 5 working days (7 hours/day)

Part time: Five weeks (25 working days, 2 hours/day)

Course Fee

Rs. 14,000/- per participant (Service tax extra)
Fee will be subsidised for Jobseekers/students

Mode of Payment

Cash or DD in favour of CRISP Society, payable at Bhopal.