



IFS Academy

Training for the future!!!

IFS Academy Certified Career Program

in CAD/CAM/CAE

(Duration: 1 Year)

(With 100% Placement Assistance)

Course Curriculum

➤ ***Basics of Engineering Design***

Applied Mechanics, Strength of Materials, Machine Design, Theory of Machines, Physical Metallurgy, Finite Element Analysis, Thermal Engineering, Fluid Dynamics, Vibrations,

➤ ***Basics of Engineering Drawing***

Engineering Graphics, Machine Drawing, Limits, Fits & Tolerances, Drawing Reading, Standards, Manufacturing Processes, Machining Operations.

➤ ***Computer Aided Design using Pro/E WF / Catia***

ProE WF: Introduction to CAD/CAM/CAE, About PTC, PTC Products, GUI of ProE WF, Sketching, Part Modeling, Advanced Part Modeling, Assembly, Drafting, Sheet Metal, Introduction to Pro Mechanism, Introduction to Pro Mechanica, Project Work.

Catia: Introduction to CAD/CAM/CAE, About Dassault Systems, Dassault Products, GUI of Catia, Sketching, Part Modeling, Advanced Part Modeling, Assembly, Drafting, Wire Frame and Surfacing, Generative Shape Design, Catia Kinematics, Introduction to Catia Analysis, Project Work.

➤ ***Computer Aided Design using SolidWorks***

Introduction to CAD/CAM/CAE, About SolidWorks, SolidWorks Products, GUI of SolidWorks, Sketching, Part Modeling, Advanced Part Modeling, Assembly, Drafting, Sheet Metal, Surfacing, SolidWorks Kinematics, Introduction to PhotoWorks, Introduction to SolidWorks Simulation, Project Work.

➤ ***Geometric Dimensioning & Tolerances (GD & T)***

➤ ***Finite Element Analysis using ANSYS***

Introduction to FEA, Elements Study, About ANSYS Inc., ANSYS Products, Selection Logic, Solid Modeling, Meshing, Material Properties, Loading and Boundary Conditions, Solvers, Post Processing, Static Structural, Thermal and Modal Analysis, Introduction to Non Linear and Dynamic Analysis, Tips & Tricks, Project Work.

➤ ***Finite Element Analysis using ANSYS Workbench***

Introduction to ANSYS Workbench, GUI, Procedure, Static Structural, Thermal and Modal Analysis, Introduction to Non Linear Analysis and Contact, Project Work.

➤ ***Computational Fluid Dynamics using ANSYS CFX / Fluent***

Introduction to FEA & FVM, Revision of Fluid Dynamics, CFD, About ANSYS CFX, GUI, Preprocessing, Solver, Post Processing, Best Practices, Sample Flow Analysis, Sample Conjugate Heat Transfer Analysis and Supersonic Flow Over Wing Analysis, Project Work.

➤ ***Computer Aided Manufacturing using CAMWorks***

Machining Processes: Turning, Drilling, Milling. Tools, Fixtures, About NC/CNC Part Programming, G&M Codes, Tool Path Generation, Turning Simulation, Milling Simulation, Drilling Simulation. Multi Axis Machining, Industrial Visit.

➤ **Soft Skills Training**

Résumé writing, Aptitude Test, Technical Test, Group Discussion Techniques, Interview techniques, Communication & Presentation Skills, Personality Development.

Duration: 1 Year

Batches: Morning / Afternoon

Contact:

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Visit Us At: <http://www.ifsacademy.org>