



IFS ACADEMY

Training For The Future!!

Advanced Diploma in CAE

(Duration: 4 Months)

(With 100% Placement Assistance)

Course Curriculum

➤ **Basics of Engineering Design & Materials**

Free body diagrams and equilibrium; trusses and frames; virtual work; Stress and strain, stress-strain relationship and elastic constants, plane stress and plane strain, shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion; Free and forced vibrations; Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; Properties of engineering materials, yield criteria.

➤ **Finite Element Modeling using Hypermesh (70 Hrs.)**

➤ **Finite Element Analysis using ANSYS Mechanical APDL (70 Hrs.)**

➤ **Finite Element Analysis using ANSYS Workbench (60 Hrs.)**

➤ **Computational Fluid Dynamics using ANSYS ICEM CFD & Fluent (70 Hrs.)**

➤ **Soft Skills Training**

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

Note: For in depth contents of the above programs, please refer our individual Modular and Authorised course curriculums.



(In-Finite Solutions ATC) 1

Deliverables:

- Technical sessions from industrial and academic professionals on topics of basics of engineering design and materials.
- Seminars and guidance from industrial professionals on soft skills training.
- **Finite Element Modeling using Hypermesh:** Soft copy of study material, IFS Academy Certificate of Completion
- **Finite Element Analysis using ANSYS Mechanical APDL:** Soft copy of study material, IFS Academy Certificate of Completion
- **Finite Element Analysis using ANSYS Workbench:** Soft copy of study material, IFS Academy Certificate of Completion
- **Computational Fluid Dynamics using ANSYS ICEM CFD & Fluent:** Soft copy of study material, IFS Academy Certificate of Completion
- **Exposure to live case studies and projects.**

IFS Academy, Pune

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