

**TECHNICAL TRAINING**  
**SOLUTIONS**  
**2022-23**



## ABOUT US

We, as the Vector Academy strive to enhance quality of engineers across the globe. In order to do so, we are providing technical and non-technical trainings to the academic institutes as well as industries.

The main objective of these training programs is to give hand-on experience to trainee and make him/her aware about the real-life industrial projects.

Our founder Mr. Sangram Bhosale (M.Tech. Design, IIT Delhi), also works as lead trainer for this EduTech venture. Along with Sangram Sir, there is team of expert engineers who are working professionals in their respective fields.

Till date, 1200+ engineers across the globe are trained by Vector Academy for different courses. Detailed testimonies of benefitted engineers are displayed on the website <https://vector-academy.org/about-us>.

Let us join our hands together and make this world a better place.





# SolidWorks

Solidworks is mostly used software tool in the industries for CAD and FEA simulations nowadays. SOLIDWORKS is used to develop mechatronics systems from beginning to end. At the initial stage, the software is used for planning, visual ideation, modeling, feasibility assessment, prototyping, and project management. The software is then used for design and building of mechanical, electrical, and software elements

- Things to be learned:
  - ✓ Solid modelling
  - ✓ Surface modelling
  - ✓ Assembly
  - ✓ FEA simulations

- Duration:

7 days to 20 days depending on things to be learned.



## CREO/ Pro-E

Creo is the 3D CAD solution that helps you accelerate product innovation so you can build better products faster.

- Things to be learned:

- ✓ 3D modelling

- ✓ Analysis

- ✓ Applications

- Duration and fees:

10 days to 30 days depending on things to be learned. Fees is dependent whether is training provided is online/offline and on number of days



# ADAMS

Adams is the most widely used multibody dynamics and motion analysis software in the world. Adams helps engineers to study the dynamics of moving parts, how loads and forces are distributed throughout mechanical systems, and to improve and optimize the performance of their products.

- Things to be learned:
  - ✓ 3D linkages
  - ✓ Kinematic analysis
  - ✓ Multi-body dynamics

- Duration:

15 days to 30 days depending on things to be learned.



# ANSYS Workbench

The Ansys Workbench platform lets you integrate data across engineering simulations to create more accurate models more efficiently. Ansys Workbench makes it easier to make more informed design choices by coordinating all your simulation data in one place.

- Things to be learned:
  - ✓ Static analysis and validation
  - ✓ Linear/ non-linear analysis
  - ✓ Impact test Introduction
  - ✓ CFD/ Fluent Introduction

- Duration:

20 days to 45 days depending on things to be learned.





# ABAQUS

Abaqus/CAE (interactive licenses) "Complete Abaqus Environment"

It is a software application used for both the modeling and analysis of mechanical components and assemblies (pre-processing) and visualizing the finite element analysis result. Abaqus is used in the automotive, aerospace, and industrial product industries. The product is popular with academic and research institutions due to the wide material modeling capability, and the program's ability to be customized..

- Things to be learned:
  - ✓ Static analysis and validation
  - ✓ Linear/ non-linear analysis
  - ✓ Impact test Introduction
  - ✓ CFD/ Fluent Introduction

- Duration:

20 days to 45 days depending on things to be learned.



# HyperWorks

HyperWorks is Built on a foundation of design optimization, performance data management and process automation, HyperWorks is an enterprise simulation platform for rapid design exploration and decision making.

- Things to be learned:
  - ✓ Meshing Complexities using hypermesh
  - ✓ Finite element analysis (FEA)
  - ✓ Modeling (CAD)
  - ✓ Optimizations

- Duration:

15 days to 30 days depending on things to be learned.





# MATLAB

MATLAB® is a programming platform designed specifically for engineers and scientists to analyze and design systems and products that transform our world. The heart of MATLAB is the MATLAB language, a matrix-based language allowing the most natural expression of computational mathematics..

- Things to be learned:
  - ✓ Complex looping
  - ✓ Image processing
  - ✓ Simulink
  - ✓ GUI applications

- Duration:

10 days to 30 days depending on things to be learned.



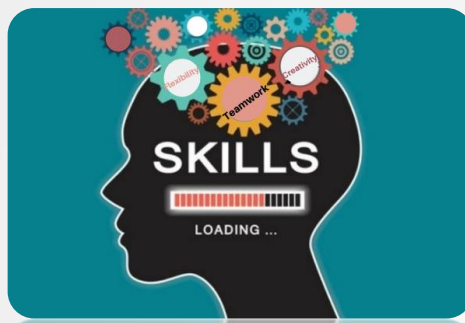
# CES EDUPACK

Granta EduPack, formerly CES EduPack, is a unique set of teaching resources to support materials education. Granta EduPack provides support to enhance undergraduate materials education. EduPack includes a database of materials and process information, materials selection tools and a range of supporting resources.

- Things to be learned:
  - ✓ Constraint equation formation
  - ✓ Parameters selections
  - ✓ Case Studies

- Duration:

12 days to 25 days depending on things to be learned.



## Non-Technical Trainings



In addition to above mentioned technical trainings, we also provide following trainings for engineers entering industrial world

- ❖ Professional English speaking and Email ethics
- ❖ Interview skills with mock interviews and effective presentation(Power-point) rules
- ❖ Aptitude skills



# WHY VECTOR ?

- **Customized training programs as per need**
- **Strengthen your curriculum vitae (CV) by adding skills and stand out in this competitive era.**
- **Internationally recognized Certification (ISO 9001-2015)**



**Certificate of Completion**

**CERTIFIED ISO 9001 CERTIFIED**

THIS IS TO CERTIFY THAT  
**MR. ABC**  
HAS SUCCESSFULLY COMPLETED ONLINE SOLIDWORKS  
TRAINING (**BASIC MODULE**).

DURATION: XX HOURS  
DATE: XX-XX-XXXX

*S.S.*  
**S.S. Bhosale** (Director, Vector Academy)

**VECTOR ACADEMY**  
*Magnitude with Direction*  
[www.vector-academy.org](http://www.vector-academy.org)

The certificate features a gold seal with 'CERTIFIED ISO 9001 CERTIFIED' and a red ribbon on the left. A large 'SAMPLE' watermark is diagonally across the center. On the right is a gold trophy. At the bottom right is a rocket icon and the Vector Academy logo with the tagline 'Magnitude with Direction' and the website URL.

## CONTACT

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WEBSITE: [WWW.VECTOR-ACADEMY.ORG](http://WWW.VECTOR-ACADEMY.ORG)