

# COURSE COMPLETION CERTIFICATE



*Diploma*



IN : Diploma in Product Design and Analysis

AWARDED TO : S.SIVASUBRAMANIAN

AT : CADD Centre Training Services, Chennai, Adambakkam

DURING : February-2019 STUDENT ID No. : M171019720

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STUDENT NAME: S.SIVASUBRAMANIANSTUDENT ID No.: M171019720CERTIFIED IN : **Diploma in Product Design and Analysis**

## Topics Covered

Introduction to Finite Element Analysis	Generative and interactive Drafting	Weldment
FEA process	Real time Rendering and materials properties	
Linear Static Analysis in 1D, 2D and 3D element	GD&T basics	
Contact and Gluing Analysis between bodies	Tolerance dimensioning	
Thermal Analysis to find temperature and stress distribution	IT grades	
Nonlinear Analysis on geometric and material nonlinearity	Introduction to 'ASME Y14.5M-1994'	
GUI of ANSYS Workbench/ANSYS	GD&T rules	
CAD modelling using ANSYS	Maximum material condition of a feature of size	
Generating the mesh	Least material condition of a feature of size	
Optimizing the model to refine mesh	Concept of virtual condition	
Static Structural Analysis	Concept of bonus tolerance	
Modal, Buckling, Thermal Analysis	Datums	
Buckling Analysis	Geometric Symbols and Modifiers	
Thermal Analysis	Surface Modeling & Editing	
Coupled Field (Thermal Stress) Analysis	Advance assembly tools	
Post Processing	Drafting & detailing	
Wireframe Design	Working with views, dimensions and annotations	
Surface Design	Creating and managing projects using PDM	
Advanced Swept Surfaces	Design table/library features	
Sheet Metal design	Import/export of files	
Data Exchange and V4 Integration	Working with mates	
CATIA Graphical User Interface	Bottom-up assembly	
Complete Sketcher Workbench	Top-down assembly	
Part Design and Dress Up Features	Exploded assembly	
Duplicating and Editing Features	Simulation/ detailing	
Multi-Body Methods and Analysis tools	BOM, balloon tool	
Knowledge Tools	Sheet metal	
Assembly Design	PDM Works	

Project : Independent project work with expert assistance

Concept/Software taught : Ansys , CATIA , GD &amp; T , SolidWorks

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