

Certificate of Completion

Awarded to

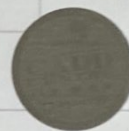
VARUN VASUDEVAN C



Professional

in

Diploma in Product Design & Analysis



at

CADD Centre Training Services, Tambaram, Chennai

during

February 2012

Diploma



Foundation

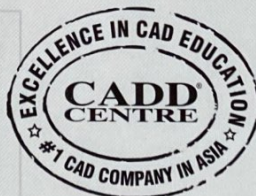
11 - 04 - 2012

V Vijayaraghavan

Date of Issue

Centre Head

Managing Director



CADD CENTRE[®]
MECHANICAL CADD

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Diploma in Product Design & Analysis



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MECHANICAL CADD

How to interpret this certificate:

There are two degrees of proficiency: Foundation and Diploma.

The Foundation course is a pre-requisite for Diploma. You may identify the proficiency as follows:

FOUNDATION



Expected skills

- CATIA user interface
- Sketch based features
- Transformation features
- Dress up features
- Advanced replication tools
- Editing parts in assembly
- Drawing view generation
- Bill of materials, balloons
- Finalizing the drawing and printing
- Dress up on 2D Views
- Real time rendering

DIPLOMA



Expected skills

All the skills mentioned in the Foundation course + the below mentioned skills

- Introduction to engineering design
- Different types of numerical methods & applications
- Practical applications of FEA
- Basics of Finite Element Method (FEM)
- Analytical method to solve any mechanics problem
- Theoretical FEM procedure to solve above mechanics problem
- Theories of failure
- Basic linear & torsional equation
- Getting started with ANSYS 11.0
- CAD modeling using ANSYS
- Introduction to meshing
- Types of elements & FEA design intent
- Meshing techniques
- Assigning material properties
- Working with different boundary conditions
- Performing different analysis & viewing results
- 1D element example problems
- 2D plane stress/strain example problem
- 3D analysis
- Thermal
- Coupled field analysis

Add - on Skills

Expected skills

The skills mentioned here is part of the skills offered with modeling course

- Dimensions and drawings
- Tolerance dimensioning
- Ways of expressing tolerance
- IT grades
- Introduction to "ASME Y14.5M-1994"
- GD&T rules
- Maximum material condition of a feature of size
- Least material condition of a feature of size
- Concept of virtual condition
- Concept of bonus tolerance
- Planar datums
- Symbols and modifiers

Project

Independent project work with expert assistance

Software Used

CATIA

Project

Independent project work with expert assistance

Software Used

ANSYS

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Autodesk

cadence

ANSYS

Bentley

SolidWorks

PRIMAVERA

PTC

PC SCHEMATIC

SIEMENS